



THE LINK TO PERFORMANCE

A correct choice of propeller is absolutely vital to get the most out of your engine and boat. And it is not only size and pitch that matters.

Genuine Volvo Penta propellers are designed for their specific task. The wide range covers propellers for shaft installations, single-propeller drives, Duoprop drives and Saildrives as well as for the new revolutionary IPS.

Production quality is exceptional with minimized tolerances, ensuring high and reliable performance, year after year.

Your first call for a new propeller is at your Volvo Penta dealer. Here you will get professional help to choose the propeller best suited for your boat, engine and driving style.

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DUOPROP – TECHNOLOGY WITH A GRIP

Nothing bites into the water as efficiently as Duoprop. It was introduced by Volvo Penta in 1982 – the biggest event in boating since the Volvo Penta aquamatic drive was introduced.

The principle behind Duoprop is simple: The counterrotating twin propellers eliminate the lateral forces existing in conventional single-propeller sterndrives. Consequently the engine's energy and power is concentrated on driving the boat forward – not sideways. This results in several benefits for your boating pleasure.

Faster acceleration, lower fuel consumption

Duoprop provides up to 30 % faster acceleration and produces a top speed some 5 % faster than any conventional single-propeller system – without increasing fuel consumption. With a partial load, you can expect between 10 and 12 % lower fuel consumption.

Faster planing

A better grip in the water means getting up and onto the plane faster. And staying there at lower revs.

Manouverability is better too

Whether at high speeds, making sharp turns, or when docking in a crowded marina – the grip is there. Duoprop also reduces the boat's tendency to roll.

Lower vibration and noise levels

Duoprop produces lower vibration and noise levels due to the fact that the shock pulses are distributed over more blades. With its counter-rotating propellers, it is almost cavitation free.

IPS

And now Volvo Penta introduces another revolutionary propulsion system. Volvo Penta IPS is a fully integrated propulsion system from controls to propellers. In direct comparison to traditional technology, acceleration is increased 15%, top speed is increased 20%, and fuel efficiency is increased by an astounding 30%. Superior performance also includes safety. From subtle design to long hours of testing, Volvo Penta engineering ensures you the most secure and most pleasurable boating experience possible.

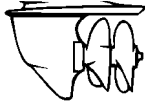
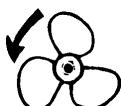
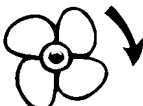

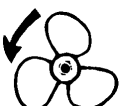



DUOPROP FOR DP280, 290 DRIVES - TYPE A

Aluminium DP propeller for diesel engines up to D41 engines. The unique design, of the 3-blade propeller in the front and the 4-blade propeller behind, is the key to the outstanding grip in the water.

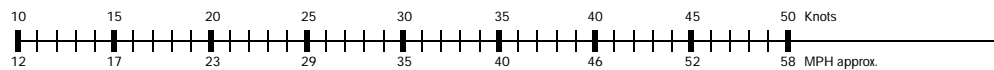
Propeller cone: shaft 20 mm – 872549.
shaft 16 mm – 872614.



DIM				DIM			
A 0	872270	872259	872264	A 6	854769	854779	854789
A 1	854764	854774	854784	A 7	854770	854780	854790
A 2	854765	854775	854785	A 8	854771	854781	854791
A 3	854766	854776	854786	A 9	854772	854782	854792
A 4	854767	854777	854787	A 10	854773	854783	854793
A 5	854768	854778	854788				



AQAD30 3600-3800 RPM Ratio 2.30:1 110 HP					A4	A5	A6	A7	A8	A9	A10				
AQAD31, AD31 3000-3250 RPM Ratio 2.30:1 110 HP					A3	A4	A5	A6	A7	A8	A9				
AQAD40 3400-3600 RPM Ratio 1.95:1 155 HP					A3	A4	A5	A6	A7	A8	A9	A10			
AQD40 3400-3600 RPM Ratio 2.30:1 130 HP					A5	A6	A7	A8	A9	A10					
AD41P 147CSKW/138PSKW 3700-3900 RPM Ratio 1.78:1					A0	A1	A2	A3	A4	A5	A6	A7	A8		
AD41P 147CSKW/138PSKW 3800-3900 RPM Ratio 1.95:1					A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	
AD41L 121CSKW/113PSKW 3400-3600 RPM Ratio 1.95:1					A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	
D41L 111CSKW/103PSKW 3800-3900 RPM Ratio 1.95:1					A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10
AD31P 110CSKW/101PSKW 3900-4100 RPM Ratio 2.32:1					A2	A3	A4	A5	A6	A7	A8	A9	A10		
AD31L 95CSKW/88PSKW 3700-3900 RPM Ratio 2.32:1					A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	
KAD32 125CSKW/118PSKW 3700-3900 RPM Ratio 1.95:1					A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10



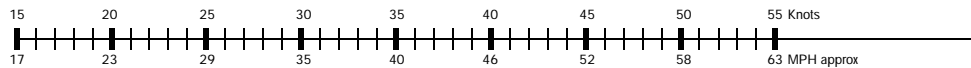
DUOPROP FOR DP280, 290 DRIVES - TYPE B



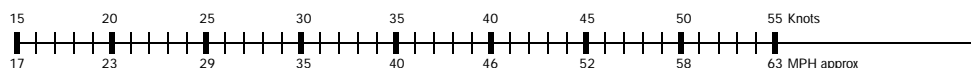
Aluminium DP propeller for gasoline and diesel engines. For speeds above 35 knots we recommend the stainless Type C propeller. The two 3-blade propellers have very thin blade profiles, demanding the highest level of precision.

Propeller cone: shaft 20 mm – 872549.
shaft 16 mm – 872614.

DIM				DIM			
B 1	854814	854822	854830	B 5	854818	854826	854834
B 2	854815	854823	854831	B 6	854819	854827	854835
B 3	854816	854824	854832	B 7	854820	854828	854836
B 4	854817	854825	854833	B 8	854821	854829	854837



AQ175 Ratio 2.30:1 4400-4800 RPM					B2	B3	B4	B5	B6	B7	B8	
AQ205/DP, 431/DP Ratio 2.30:1 4400-4800 RPM		B1	B2	B3	B4	B5	B6	B7	B8			
AQ200/DP Ratio 1.95:1 4000-4400 RPM			B1	B2	B3	B4	B5	B6	B7	B8		
AQ211/DP, 500/DP Ratio 1.95:1 4000-4400 RPM			B1	B2	B3	B4	B5	B6	B7	B8		
AQ225/DP Ratio 1.95:1 4000-4400 RPM			B1	B2	B3	B4	B5	B6	B7	B8		
AQ231/DP, 501/DP Ratio 1.95:1 4200-4600 RPM			B1	B2	B3	B4	B5	B6	B7	B8		
AQ260 Ratio 1.95:1 4000-4400 RPM			B1	B2	B3	B4	B5	B6	B7	B8		
AQ271/DP, 570/DP Ratio 1.95:1 4200-4600 RPM			B1	B2	B3	B4	B5	B6	B7	B8		
4.3Gi 159GSKW/145PSKW Ratio 1.95:1 4400-4800 RPM					B1	B2	B3	B4	B5	B6	B7	B8
4.3Gi 159GSKW/145PSKW Ratio 2.30:1 4400-4800 RPM		B1	B2	B3	B4	B5	B6	B7	B8			
4.3GS 159GSKW/145PSKW Ratio 1.95:1 4400-4800 RPM					B1	B2	B3	B4	B5	B6	B7	B8
4.3GS 159GSKW/145PSKW Ratio 2.30:1 4400-4800 RPM		B1	B2	B3	B4	B5	B6	B7	B8			
4.3GL 144GSKW/131PSKW Ratio 1.95:1 4200-4600 RPM					B1	B2	B3	B4	B5	B6	B7	B8
4.3GL 144GSKW/131PSKW Ratio 2.30:1 4200-4600 RPM	B1	B2	B3	B4	B5	B6	B7	B8				
5.0FL Ratio 1.95:1 4000-4400 RPM					B1	B2	B3	B4	B5	B6	B7	B8
5.0FI/DP Ratio 1.95:1 4200-4600 RPM					B1	B2	B3	B4	B5	B6	B7	
5.8FL Ratio 1.95:1 4000-4400 RPM			B1	B2	B3	B4	B5	B6	B7	B8		
5.8FSI/DP Ratio 1.78:1 4200-4600 RPM					B1	B2	B3	B4	B5	B6	B7	B8
5.7GL 169CSKW/154PSKW Ratio 1.95:1 4200-4600 RPM					B1	B2	B3	B4	B5	B6	B7	
7.4GL 224CSKW/204PSKW Ratio 1.78:1 4200-4600 RPM					B1	B2	B3	B4	B5			
5.7GSI 227GSKW/210PSKW Ratio 1.95:1 4600-5000 RPM					B1	B2	B3	B4	B5	B6	B7	B8
5.7Gi 180GSKW/164PSKW Ratio 1.95:1 4200-4600 RPM			B1	B2	B3	B4	B5	B6	B7	B8		
5.7GS 185GSKW/169PSKW Ratio 1.95:1 4200-4600 RPM			B1	B2	B3	B4	B5	B6	B7	B8		
740/DP Ratio 1.78:1 4000-4400 RPM		B1	B2	B3	B4	B5						
KAD42/DP* 170CSKW/159PSKW Ratio 1.78:1 3800-3900 RPM			B2	B3	B4	B5	B6	B7	B8			
KAD43* 170CSKW/159PSKW Ratio 1.78:1 3800-3900RPM			B2	B3	B4	B5	B6	B7	B8			
KAD44* 191CSKW/181PSKW Ratio 1.68:1 3800-3900 RPM			B1	B2	B3	B4	B5	B6	B7	B8		



* For KAD44, 300 engines stainless steel propellers, type C, are recommended.

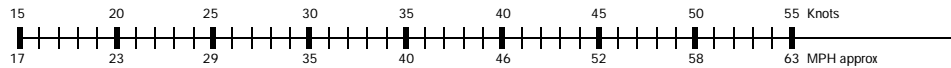
DUOPROP FOR DP280, 290 DRIVES - TYPE C

The Volvo Penta state-of-the-art stainless steel DP propeller has been specially designed to give maximum thrust where most needed. The high speed is achieved through thinner blades and powerful thrust. Greater torsional strength adds faster acceleration. The stainless steel material makes the propellers durable and highly resistant to cavitation, damage and corrosion. All these factors contribute to excellent handling and comfort.

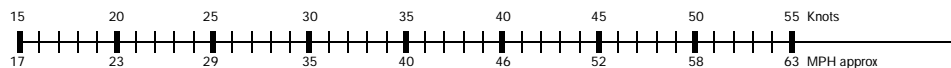


Propeller cone: shaft 20 mm – 872549.
shaft 16 mm – 872614.

DIM				DIM			
C 2	3860877	3860602	3860603	C 5	3857496	3857462	3857466
C 3	3860878	3860604	3860605	C 6	3857497	3857463	3857467
C 4	3857495	3857461	3857465	C 7	3857498	3857464	3857468



431/DP, AQ205DP Ratio 2.30:1 4400-4800 RPM						C4	C5	C6	C7	
500/DP, AQ211DP Ratio 1.95:1 4000-4400 RPM							C4	C5	C6	C7
501/DP, AQ231/DP 4200-4600 RPM							C4	C5	C6	C7
570/DP, AQ271DP Ratio 1.95:1 4200-4600 RPM							C4	C5	C6	C7
740/DP Ratio 1.78:1 4000-4400 RPM							C4	C5	C6	C7
D41L Ratio 1.95:1 111CSKW/103PSKW 3800-3900 RPM							C4	C5	C6	C7
AD41P Ratio 1.78:1 147CSKW/138PSKW 3700-3900 RPM							C4	C5	C6	C7
AD41L Ratio 1.95:1 121CSKW/113PSKW 3400-3600 RPM							C4	C5	C6	C7
AD41P Ratio 1.95:1 147CSKW/138PSKW 3800-3900 RPM							C4	C5	C6	C7
KAD42 Ratio 1.78:1 170CSKW/179PSKW 3800-3900 RPM							C4	C5	C6	C7
4.3Gi Ratio 1.95:1 159CSKW/145PSKW 4400-4800 RPM							C4	C5	C6	C7
4.3Gi Ratio 2.3:1 159CSKW/145PSKW 4400-4800 RPM							C4	C5	C6	C7
4.3GL Ratio 1.95:1 144CSKW/131PSKW 4200-4600 RPM							C4	C5	C6	C7
4.3GL Ratio 2.3:1 144CSKW/131PSKW 4200-4600 RPM							C4	C5	C6	C7
4.3GS Ratio 1.95:1 159CSKW/145PSKW 4400-4800 RPM							C4	C5	C6	C7
4.3GS Ratio 2.3:1 159CSKW/145PSKW 4400-4800 RPM							C4	C5	C6	C7
5.0FL/DP Ratio 1.95:1 220 SHP 4200-4600 RPM							C4	C5	C6	C7
5.0FL/DP Ratio 1.95:1 190 SHP 4200-4600 RPM							C4	C5	C6	C7
5.7Gi Ratio 1.95:1 180CSKW/164PSKW 4200-4600 RPM							C4	C5	C6	C7
5.7GL Ratio 1.95:1 169CSKW/154PSKW 4200-4600 RPM							C4	C5	C6	C7
5.7GS Ratio 1.95:1 185CSKW/169PSKW 4200-4600 RPM							C4	C5	C6	C7
5.7GSi Ratio 1.95:1 227CSKW/210PSKW 4600-5000 RPM							C4	C5	C6	C7
5.8FL/DP Ratio 1.95:1 235 SHP 4000-4400 RPM							C4	C5	C6	C7
5.8FS/DP Ratio 1.78:1 275 SHP 4600-5000 RPM							C4	C5	C6	
7.4Gi Ratio 1.68:1 242CSKW/218PSKW 4200-4600 RPM							C4	C5	C6	C7
7.4Gi Ratio 1.78:1 242CSKW/218PSKW 4200-4600 RPM							C4	C5	C6	C7
7.4GL Ratio 1.78:1 224CSKW/204PSKW 4200-4600 RPM							C4	C5	C6	C7
AD31P Ratio 2.3:1 110CSKW/101PSKW 3800-4000 RPM							C4	C5	C6	C7
KAD32 Ratio 1.95:1 125CSKW/118PSKW 3800-3900 RPM							C4	C5	C6	C7
KAD43 Ratio 1.78:1 170CSKW/159PSKW 3800-3900 RPM							C4	C5	C6	C7
KAD44 Ratio 1.68:1 191CSKW/181PSKW 3800-3900 RPM							C4	C5	C6	C7

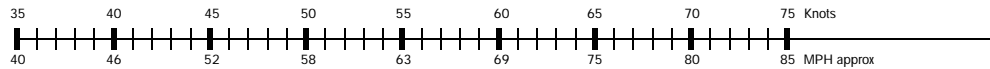


DUOPROP FOR THE DPX DRIVE - TYPE E

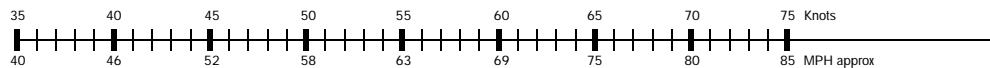


The stainless steel DP-E propeller is specially developed to handle the high forces of the DPX high speed drive. Handling speeds up to 75 knots put high demands on the propellers performance.

DIM			
E 2	3860065	872422	3860011
E 3	3860066	872423	3860012
E 4	3860067	872424	3860013



KAD42 169CSKW/159PSKW Ratio 1.78:1 3800-3900 RPM		E2	E3	E4				
KAD42 169CSKW/159PSKW Ratio 1.68:1 3800-3900 RPM			E2	E3	E4			
KAD43 170CSKW/159PSKW Ratio 1.59:1 3800-3900 RPM				E2	E3	E4		
KAD43 170CSKW/159PSKW Ratio 1.68:1 3800-3900 RPM			E2	E3	E4			
KAD43 170CSKW/159PSKW Ratio 1.78:1 3800-3900 RPM		E2	E3	E4				
KAD44 191CSKW/181PSKW Ratio 1.59:1 3800-3900 RPM			E2	E3	E4			
KAD44 191CSKW/181PSKW Ratio 1.68:1 3800-3900 RPM		E2	E3	E4				
7.4GSI /DPX Ratio 1.68:1 4800-5200 RPM					E2	E3	E4	
7.4GSI /DPX Ratio 1.78:1 4800-5200 RPM				E2	E3	E4		
8.2GL /DPX Ratio 1.78:1 4700-5000 RPM			E2	E3	E4			
8.2GL /DPX Ratio 1.68:1 4700-5000 RPM				E2	E3	E4		
DPX415 301CSKW/271PSKW Ratio 1.59:1 4600-5000 RPM					E2	E3	E4	
DPX415 301CSKW/271PSKW Ratio 1.68:1 4600-5000 RPM				E2	E3	E4		
DPX415 301CSKW/271PSKW Ratio 1.78:1 4600-5000 RPM		E2	E3	E4				
DPX385 292CSKW/262PSKW Ratio 1.59:1 4800-5200 RPM					E2	E3	E4	
DPX385 292CSKW/262PSKW Ratio 1.68:1 4800-5200 RPM				E2	E3	E4		
DPX385 292CSKW/262PSKW Ratio 1.78:1 4800-5200 RPM		E2	E3	E4				
DPX300 230CSKW/212PSKW Ratio 1.59:1 4600-5000 RPM					E2	E3	E4	
DPX300 230CSKW/212PSKW Ratio 1.68:1 4600-5000 RPM				E2	E3	E4		
DPX300 230CSKW/212PSKW Ratio 1.78:1 4600-5000 RPM		E2	E3	E4				

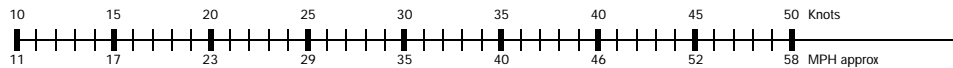


DUOPROP FOR THE DPS DRIVE - TYPE D

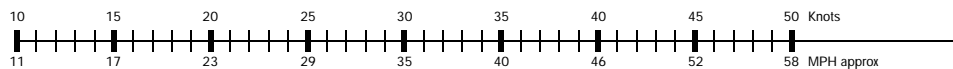
The aluminium propeller for all gasoline and diesel engines using the DPS drive, with speeds up to 35 knots.



DIM				DIM			
D 0	3851480	3851420	3851440	D 5	3856365	3856345	3856355
D 1	3851481	3851421	3851441	D 6	3856366	3856346	3856356
D 2	3851482	3851422	3851442	D 7	3856367	3856347	3856357
D 3	3851483	3851423	3851443				
D 4	3851484	3851424	3851444				



4.3GL Ratio 2.32:1	4200-4600 RPM 144CSKW/131PSKW	D0	D1	D2	D3	D4	D5	D6	D7		
4.3GS Ratio 2.32:1	4400-4800 RPM 159CSKW/145PSKW	D0	D1	D2	D3	D4	D5	D6	D7		
4.3Gi Ratio 2.32:1	4400-4800 RPM 159CSKW/145PSKW	D0	D1	D2	D3	D4	D5	D6	D7		
4.3Gi Ratio 1.95:1	4400-4800 RPM 205 SHP					D0	D1	D2	D3	D4	
4.3GS Ratio 1.95:1	4400-4800 RPM 205 SHP					D0	D1	D2	D3	D4	
5.0FL Ratio 1.95:1	4200-4600 RPM 190 SHP					D1	D2	D3	D4		
5.0Fi Ratio 1.95:1	4200-4600 RPM 220 SHP					D1	D2	D3	D4	D5	
5.0Gi Ratio 1.95:1	4600-5000 RPM 201CSKW/186PSKW					D0	D1	D2	D3		
5.0GL Ratio 1.95:1	440-4800 RPM 179CSKW/164PSKW					D0	D1	D2	D3	D4	
5.7GL Ratio 1.95:1	4200-4600 RPM 215 SHP					D2	D3	D4	D5	D6	
5.7GS Ratio 1.95:1	4400-4800 RPM 205CSKW/191PSKW					D0	D1	D2	D3	D4	D5
5.8FL Ratio 1.95:1	4000-4400 RPM 235 SHP					D2	D3	D4	D5	D6	
5.7Gi Ratio 1.95:1	4200-4600 RPM 250 SHP					D2	D3	D4	D5		
5.8Fi Ratio 1.78:1	4200-4600 RPM 255 SHP					D2	D3	D4	D5		
5.8FSi Ratio 1.95:1	4200-4600 RPM 255 SHP					D2	D3	D4	D5		
5.8FSi Ratio 1.95:1	4600-5000 RPM 275 SHP					D1	D2	D3	D4		
5.7GSi Ratio 1.95:1	4600-5000 RPM 280 SHP					D0	D1	D2	D3	D4	
5.7GSi Ratio 1.78:1	4600-5000 RPM 227CSKW/210PSKW					D0	D1	D2	D3		
7.4GL Ratio 1.78:1	4200-4600 RPM 300 SHP					D1	D2	D3	D4	D5	
7.4Gi Ratio 1.78:1	4200-4600 RPM 235CSKW/210PSKW					D0	D1	D2	D3	D4	
7.4Gi Ratio 1.68:1	4200-4600 RPM 235CSKW/210PSKW					D0	D1	D2	D3		
KAD32 Ratio 1.95:1	3700-3900 RPM 125CSKW/118PSKW	D0	D1	D2	D3	D4	D5	D6	D7		




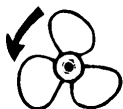
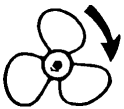
For all engines with speeds in excess of 35 knots, the stainless steel Type F propeller should be used.

DUOPROP FOR THE DPS DRIVE - TYPE X



The X-Series Composite DP Propeller is designed for Volvo Penta gasoline twin engine installations up to 5.0L and single installations up to 5.7L, as well as D3 diesel engines equipped with the XDP or DPS drives. The propeller has a tensile strength 10 to 15% greater than aluminium and maintains equivalent performance. The propeller is corrosion-resistant, and the design makes it possible to change blades individually.

Note: X-Series Propeller kits come with front propeller nut required for installation.


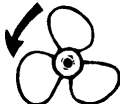
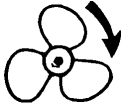

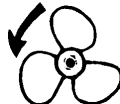

DIM			Front blade	Front cap		Rear blade	Rear cap
X2	3807959	888654	888651	3861604	888655	888652	3861605
X3	3807958	3807949	3807947	3861604	3807950	3807948	3861605
X4	3807957	3807945	3807943	3861604	3807946	3807944	3861605
X5	3807956	3807941	3807939	3861604	3807942	3807940	3861605
X6	3807955	3807937	3807934	3861604	3807938	3807936	3861605
X7	3807954	3807932	3807930	3861604	3807933	3807931	3861605
X8	3807953	3807928	3807779	3861604	3807929	3807780	3861605
X9	3807952	889562	889557	3861604	889564	889559	3861605

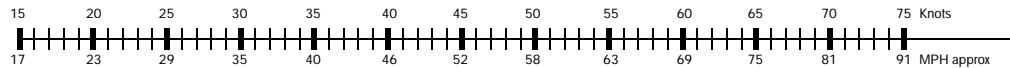


DUOPROP FOR THE DPS DRIVE - TYPE F

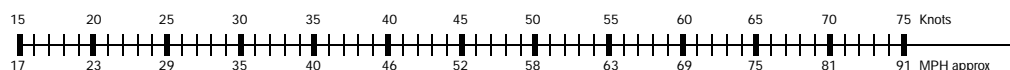
The stainless steel option for high performance gasoline and diesel engines with DPS drive. The material used gives the propeller blades greater torsional strength and is more resistant to cavitation damage.



DIM				DIM			
F 2	3857563	3857557	3857558	F 6	3851496	3851466	3851476
F 3	3857564	3857559	3857560	F 7	3851497	3851467	3851477
F 4	3851494	3851464	3851474	F 8	3851498	3851468	3851478
F 5	3851495	3851465	3851475	F 9	3851499	3851469	3851479




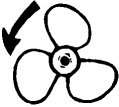

4.3Gi 159CSKW/145PSKW Ratio 2.32:1 4400-4800 RPM		F2	F3	F4	F5	F6	F7	F8	F9			
4.3Gi 159CSKW/145PSKW Ratio 1.95:1 4400-4800 RPM			F2	F3	F4	F5	F6	F7	F8	F9		
4.3GL 144CSKW/131PSKW Ratio 1.95:1 4200-4600 RPM				F2	F3	F4	F5	F6	F7	F8	F9	
4.3GL 144CSKW/131PSKW Ratio 2.32:1 4200-4600 RPM		F2	F3	F4	F5	F6	F7	F8	F9			
4.3GS 159CSKW/145PSKW Ratio 2.32:1 4400-4800 RPM			F2	F3	F4	F5	F6	F7	F8	F9		
4.3GS 159CSKW/145PSKW Ratio 1.95:1 4400-4800 RPM				F2	F3	F4	F5	F6	F7	F8	F9	
5.0FL 4200-4600 RPM Ratio 1.95:1 190 SHP					F4	F5	F6	F7	F8	F9		
5.0Fi 4200-4600 RPM Ratio 1.95:1 220 SHP					F4	F5	F6	F7	F8	F9		
5.0Gi 201CSKW/186PSKW Ratio 1.78:1 4600-5000 RPM				F2	F3	F4	F5	F6	F7	F8		
5.0Gi 201CSKW/186PSKW Ratio 1.95:1 4600-5000 RPM					F4	F5	F6	F7	F8	F9		
5.0GL 179CSKW/164PSKW Ratio 1.78:1 4400-4800 RPM				F2	F3	F4	F5	F6	F7	F8		
5.0GL 179CSKW/164PSKW Ratio 1.95:1 4400-4800 RPM			F2	F3	F4	F5	F6	F7	F8	F9		
5.7GL 4200-4600 RPM Ratio 1.95:1 215 SHP					F4	F5	F6	F7	F8	F9		
5.7Gi 4200-4600 RPM Ratio 1.95:1 250 SHP					F4	F5	F6	F7	F8	F9		
5.7GS 205CSKW/191PSKW Ratio 1.78:1 4600-4800 RPM			F2	F3	F4	F5	F6	F7	F8			
5.7GS 185CSKW/169PSKW Ratio 1.95:1 4200-4600 RPM				F4	F5	F6	F7	F8	F9			
5.7GSI 4600-5000 RPM Ratio 1.95:1 280 SHP			F2	F3	F4	F5	F6	F7	F8	F9		
5.7GSI 4600-5000 RPM Ratio 1.78:1 300 SHP					F4	F5	F6	F7	F8	F9		
5.7GSI 227CSKW/210PSKW Ratio 1.78:1 4600-5000 RPM			F2	F3	F4	F5	F6	F7	F8	F9		
5.7GS 205CSKW/191PSKW Ratio 1.95:1 4600-4800 RPM				F4	F5	F6	F7	F8	F9			
5.8Fi 4200-4600 RPM Ratio 1.95:1 255 SHP				F4	F5	F6	F7	F8	F9			
5.8FL 4000-4400 RPM Ratio 1.95:1 235 SHP				F4	F5	F6	F7	F8	F9			
5.8FSi 4200-4600 RPM Ratio 1.95:1 255 SHP				F4	F5	F6	F7	F8	F9			
5.8FSi 4600-5000 RPM Ratio 1.95:1 275 SHP					F4	F5	F6	F7	F8	F9		
7.4GL 4200-4600 RPM Ratio 1.78:1 300 SHP					F4	F5	F6	F7	F8	F9		
7.4Gi 4200-4600 RPM Ratio 1.78:1 320 SHP			F2	F3	F4	F5	F6	F7	F8	F9		
7.4Gi 4200-4600 RPM Ratio 1.68:1 320 SHP				F2	F3	F4	F5	F6	F7	F8	F9	
7.4GSI 292CSKW/262PSKW Ratio 1.68:1 4800-5200 RPM					F2	F3	F4	F5	F6	F7	F8	F9
7.4GSI 292CSKW/262PSKW Ratio 1.78:1 4800-5200 RPM					F2	F3	F4	F5	F6	F7	F8	F9
8.2GSI 301CSKW/271PSKW Ratio 1.68:1 4600-5000 RPM					F2	F3	F4	F5	F6	F7	F8	F9
8.2GSI 301CSKW/271PSKW Ratio 1.78:1 4600-5000 RPM					F2	F3	F4	F5	F6	F7	F8	F9
KAD32 125CSKW/118PSKW Ratio 1.95:1 3700-3900 RPM		F2	F3	F4	F5	F6	F7	F8	F9			



DUOPROP FOR THE DPH DRIVE – TYPE G

The combination of a 3-blade front and a 4-blade rear propeller, is the key to the tremendous grip in the water. The new generation DP propellers has been specially developed to handle the tremendous torque and power from the D4 and D6 engines. Performance is outstanding and the special nickel-aluminium-bronze alloy complete with full electric isolation ensures no growth and excellent corrosion resistance.


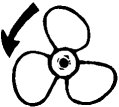
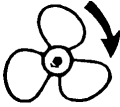


DIM			
G2	3587375	3587386	3587388
G3	3587378	3587389	3587390
G4	3587379	3587391	3587392
G5	3587380	3587393	3587394
G6	3587381	3587395	3587397
G7	3587382	3587398	3587399
G8	3587383	3587400	3587401
G9	3587384	3587402	3587403
G10	3587385	3587404	3587405

DUOPROP FOR THE DPR DRIVE – TYPE GR

The GR propeller is developed to handle the outstanding demand for thrust and strength placed by the new DPR high speed drive developed for the new D4 and D6 engines. Made in stainless steel.

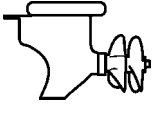
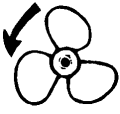
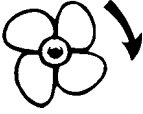
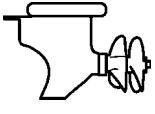
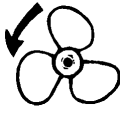
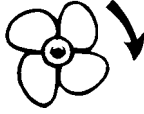


DIM			
GR7	3863492	3863501	3863502
GR8	3863493	3863503	3863504
GR9	3863494	3863505	3863506

PROPELLER FOR THE IPS DRIVE - TYPE T



The nickel-aluminium-bronze propeller is developed to add to the revolutionary IPS propulsion system's outstanding performance. The design combined with a material that withstands corrosion, as well as minimizing growth, ensure optimum performance and outstanding manoeuvrability.

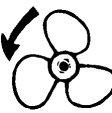
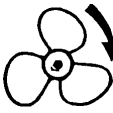
DIM				DIM			
T2	3861092	3861093	3861094	T7	3861107	3861108	3861109
T3	3861095	3861096	3861097	T8	3861110	3861111	3861112
T4	3861098	3861099	3861100	T9	3861113	3861114	3861115
T5	3861101	3861102	3861103	T10	3861116	3861117	3861118
T6	3861104	3861105	3861106				

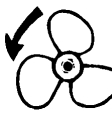
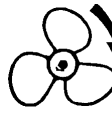


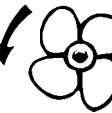
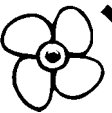
SINGLE PROPELLERS FOR THE SX-DRIVE

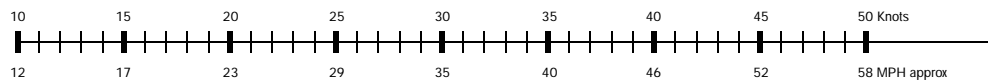


The SX propeller is available in 3-blade aluminium and stainless steel as well as 4-blade aluminium. The 3-blade SX is perfect for the standard installation and the stainless propeller being the perfect choice for high speeds. The 4-blade SX propeller is the perfect choice when acceleration and remaining planing at lower revs are important.

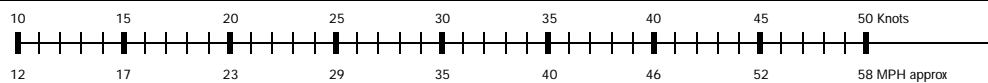
ØxPITCH	ALUMINIUM	
		
14,25x21	-	3850302
14,25x23	-	3850303
14,5x19	3855481	3850301
15x15	-	-
15x16	-	-
15x17	3855480	3850300
15,5x12	3855476	-
15,5x13	3855477	3850298
15,5x14	3855478	-
15,5x15	3855479	3850299

ØxPITCH	STAINLESS STEEL POLISHED	
		
14,75x17	3860714	3862462
14,75x19	3860715	3860708
14,75x21	3860716	3860709
14,25x23	3860717	3870710

ØxPITCH	ALUMINIUM	
		
14,75x15	3587519	3587517
14,5x17	3587521	3587520
14,25x19	3587523	3587522
14x21	3587525	3587524
14x23		3587526



MD22	44CSKW/40PSKW		15x12	15x13	15x14	15x15	15x17	14x19											
Ratio 2.18:1	3800-4000 RPM																		
TMD22	57CSKW/53PSKW			15x12	15x13	15x14	15x17	14x19											
Ratio 2.18:1	4100-4500 RPM																		
TAMD22	77CSKW/71PSKW			15x13	15x14	15x15	15x17	14x19	14,2x21	14,2x23									
Ratio 2.18:1	4050-4500 RPM																		
AD31P	110CSKW/101PSKW			15x13	15x14	15x15	15x17	14x19	14,2x21	14,2x23									
Ratio 1.66:1	3800-4000 RPM																		
AD31P	110CSKW/101PSKW			15x13	15x14	15x15	15x17	14x19	14,2x21	14,2x23									
Ratio 1.79:1	3800-4000 RPM																		
AD31P	110CSKW/101PSKW			15x15	15x17	14x19	14,2x21	14,2x23											
Ratio 1.85:1	3800-4000 RPM																		
AD31L	95CSKW/88PSKW			15x13	15x14	15x15	15x17	14x19	14,2x21	14,2x23									
Ratio 1.66:1	3800-3900 RPM																		
AD31L	95CSKW/88PSKW			15x14	15x15	15x17	14x19	14,2x21	14,2x23										
Ratio 1.79:1	3800-3900 RPM																		
AD31L	95CSKW/88PSKW			15x15	15x17	14x19	14,2x21	14,2x23											
Ratio 1.85:1	3800-3900 RPM																		



SINGLE PROPELLERS FOR THE SX-DRIVE cont.

3.0GL 4200-4600 RPM Ratio 1.85:1 120 SHP		15x13	15x15	15x17	14x19	14x21	14x23		
3.0GS 98CSKW/88PSKW Ratio 1.97:1 4200-4600 RPM		15x13	15x15	15x17	14x19	14x21	14x23		
3.0GS 98CSKW/88PSKW Ratio 2.18:1 4200-4600 RPM	15x13	15x15	15x17	14x19	14x21	14x23			
3.0GS 4400-4800 RPM Ratio 1.85:1 135 SHP		15x20	15x15	15x17	14x19	14x21	14x23		
4.3GL 144CSKW/131PSKW Ratio 1.66:1 4400-4800 RPM			15x13	13x15	15x17	14x19	14x21	14x23	
4.3GL 144CSKW/131PSKW Ratio 1.79:1 4200-4600 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
4.3GL 144CSKW/131PSKW Ratio 1.85:1 4200-4600 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
4.3GL 144CSKW/131PSKW Ratio 1.89:1 4200-4600 RPM		15x13	15x15	15x17	14x19	14x21	14x23		
4.3GS 159CSKW/145PSKW Ratio 1.66:1 4400-4800 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
4.3GS 159CSKW/145PSKW Ratio 1.79:1 4400-4800 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
4.3GS 159CSKW/145PSKW Ratio 1.85:1 4400-4800 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
4.3Gi 159CSKW/145PSKW Ratio 1.85:1 4400-4800 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
4.3Gi 159CSKW/145PSKW Ratio 1.79:1 4400-4800 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
4.3Gi 159CSKW/145PSKW Ratio 1.66:1 4400-4800 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.0Gi 201CSKW/186PSKW Ratio 1.51:1 4600-5000 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.0FL 4200-4600 RPM Ratio 1.60:1 190 SHP		15x13	15x15	15x17	14x19	14x21	14x23		
5.0Fi 4200-4800 RPM Ratio 1.60:1 220 SHP		15x13	15x15	15x17	14x19	14x21	14x23		
5.0GL 179CSKW/164PSKW Ratio 1.51:1 4400-4800 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.0Gi 201CSKW/186PSKW Ratio 1.60:1 4600-5000 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.0GL 179CSKW/164PSKW Ratio 1.60:1 4400-4800 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.0Fi 4200-4800 RPM Ratio 1.66:1 220 SHP		15x13	15x15	15x17	14x19	14x21	14x23		
5.7GS 205CSKW/191PSKW Ratio 1.43:1 4400-4800 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.7Gi 180CSKW/164PSKW Ratio 1.51:1 4200-4600 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.7GL 169CSKW/154PSKW Ratio 1.60:1 4200-4600 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.7GS 185CSKW/169PSKW Ratio 1.51:1 4200-4600 RPM		15x13	15x15	15x17	14x19	14x21	14x23		
5.7GS 205CSKW/191PSKW Ratio 1.51:1 4400-4800 RPM		15x13	15x15	15x17	14x19	14x21	14x23		
5.7GSi 227CSKW/210PSKW Ratio 1.51:1 4600-5000 RPM		15x13	15x15	15x17	14x19	14x21	14x23		
5.7GSi 227CSKW/210PSKW Ratio 1.43:1 4600-5000 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.7GSi 230CSKW/212PSKW Ratio 1.43:1 4600-5000 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
5.8FL 4000-4400 RPM Ratio 1.51:1 235 SHP		15x13	15x15	15x17	14x19	14x21	14x23		
5.8Fi 4200-4600 RPM Ratio 1.51:1 255 SHP		15x13	15x15	15x17	14x19	14x21	14x23		
5.8FSi 4600-5000 RPM Ratio 1.51:1 275 SHP			15x13	15x15	15x17	14x19	14x21	14x23	
7.4GL 224CSKW/204PSKW Ratio 1.43:1 4200-4600 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
7.4Gi 235CSKW/210PSKW Ratio 1.43:1 4200-4600 RPM			15x13	15x15	15x17	14x19	14x21	14x23	
7.4Gi 242CSKW/218PSKW Ratio 1.43:1 4200-4600 RPM			15x13	15x15	15x17	14x19	14x21	14x23	

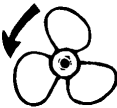
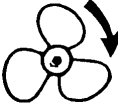
To save space the decimals have been removed in the table, the complete figures are found on the previous page.

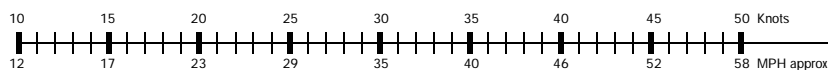
SINGLE PROPELLER FOR THE 200-290 DRIVES cont.

Aluminium high speed and standard propeller, short hub

STD=Standard propeller
HS = High speed propeller

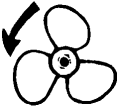
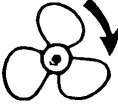


Ø x PITCH		
14x13	813284 STD	813285 STD
14x15	814626 HS	814631 HS
14x17	814627 HS	814632 HS
14x19	814628 HS	814633 HS
15x11	813296 STD	813297 STD
15x13	813316 STD	813317 STD
15x15	814611 HS	814615 HS
15x17	814612 HS	814616 HS



AQ125B/270 Ratio 2.15:1 4600-5000 RPM	14x13	14x15	14x17	14x19	14x21
AQ131/275, 230/SP MT Ratio 2.15:1 4600-5000 RPM	15x11	15x13	15x15	15x17	15x19
AQ131/290, 230/SP Ratio 2.15:1 4600-5000 RPM	14x15	14x17	14x19	14x21	
AQ145B/290 Ratio 2.15:1 4800-5500 RPM	15x13	15x15	15x17	15x19	15x21
AQ151/290, 250/SP Ratio 2.15:1 4800-5500 RPM	16x13	14x15	14x17	14x19	14x21
AQ171/290, 251DOHC/SP Ratio 2.15:1 5000-5700 RPM	15x13	15x15	15x17	15x19	14x21

Standard propellers for 100 drives with cylindrical shaft and locking pin

Ø x PITCH		
13x13	813224	813233
13x15	839186 HS	
14x11	813227	
14x11	804449 *	
14x13	813229	
14x15	832992	

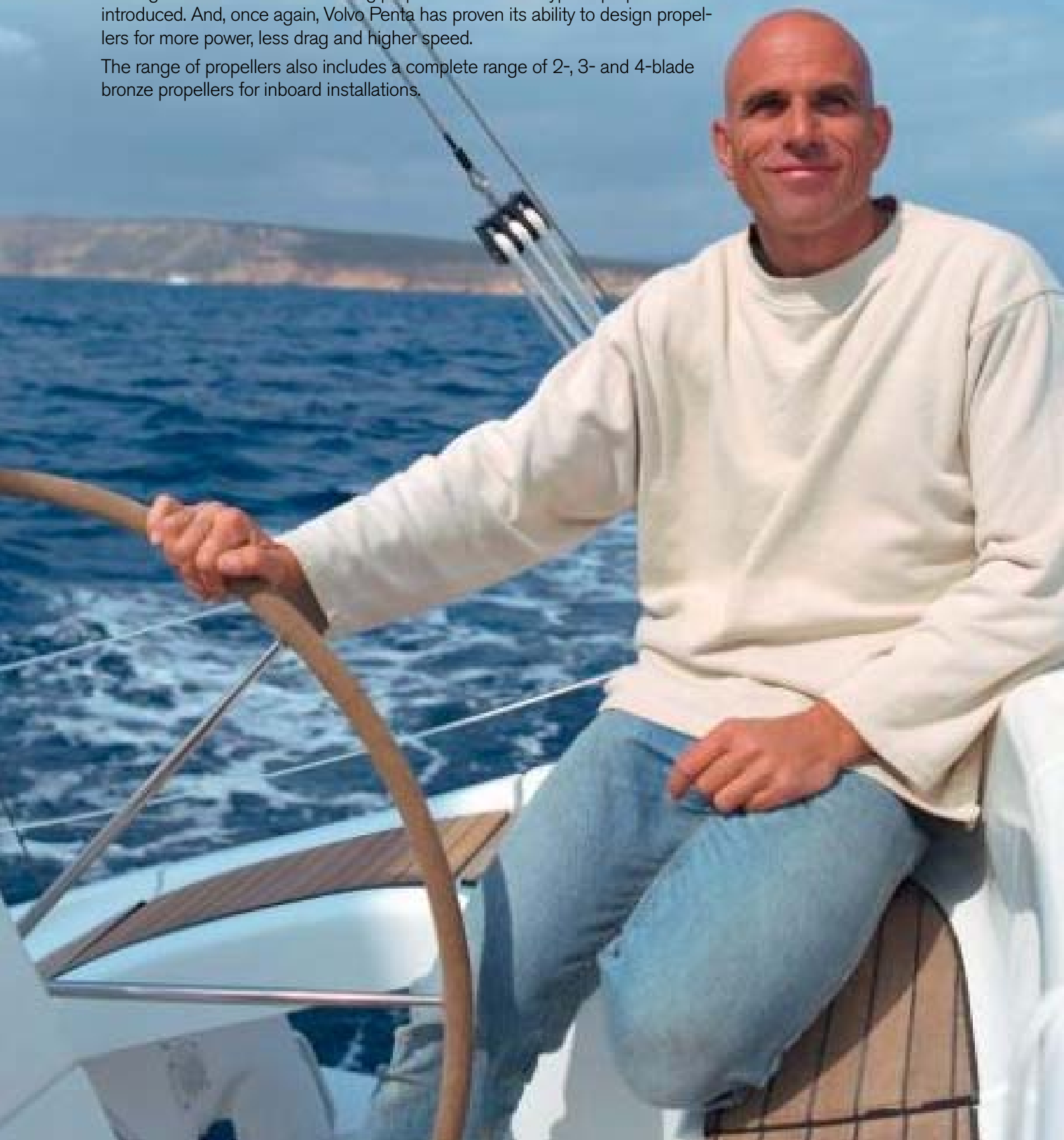
* For splined shafts (3/16")

PROPELLERS FOR SAILBOATS - A MATTER OF PASSION AND INNOVATION

Volvo Penta has always been associated with innovations. When the Saildrive was introduced in 1973, it was a completely new engineering concept. It offered easier installation for boat builders and better comfort with less vibrations for boat owners.

The ingenious 3- and 4-blade folding propeller were a new type of propeller when introduced. And, once again, Volvo Penta has proven its ability to design propellers for more power, less drag and higher speed.



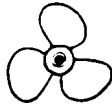
The range of propellers also includes a complete range of 2-, 3- and 4-blade bronze propellers for inboard installations.




PROPELLERS FOR S-DRIVE



Volvo Penta's S-drive propellers for 110S and 120S are manufactured of aluminium and bronze alloys, developed to withstand salt water and cavitation damage. The propellers are manufactured to a high and consistent quality under rigid quality controls.

	Ø x PITCH			
MD2010	14x 8	3858507	853346	
MD2020	14x11	3858508	3583867	851419
	15x 9		3583868	
	15x11		850342	
	16x11			
MD2030	14x12	3858510	852116	850659
	16x11			
	16x13			
MD2040	17x12	3858512	852510	873369
	17x14			
D2-55	17x16		3583578	3583577
D2-75	18x16		889658	889659
	19x17			
MD22L	17x15		853583	873368
	17x16			
MD22	17x12		852510	873369
	17x14			
MD5A	14x 6	3858506	850261	
	14x 7			
MD5C, 2001	14x 8	3858507	853346	
	14x 9		850341	
MD7A	14x 9	3858508	850341	850658
	15x 9			
MD7B, 2002	14x11	3858508	850342	851419
	14x12			850659
	15x 9			
	16x11			
MD11C	14x12	3858508	850342	850659
	15x 9			
	16x11			
MD11D, 2003	15x13	3858510	850342	850672
	16x11		852116	
	16x13			
MD17C	15x13	3858510		850672
	16x11			
MD17D	17x13	3858511	852510	852117
	17x14			
MD21	15x12			851988
	16x11			852017
2003T	17x14		853583	853588
	17x16			

Propeller for S drives 50S, 100S

	Ø x PITCH	
MB2A	12x 8	855095
MD5A	14x 7	851794
MD6A	14x 8	839514
MB10A, MD11C	16x11	839191

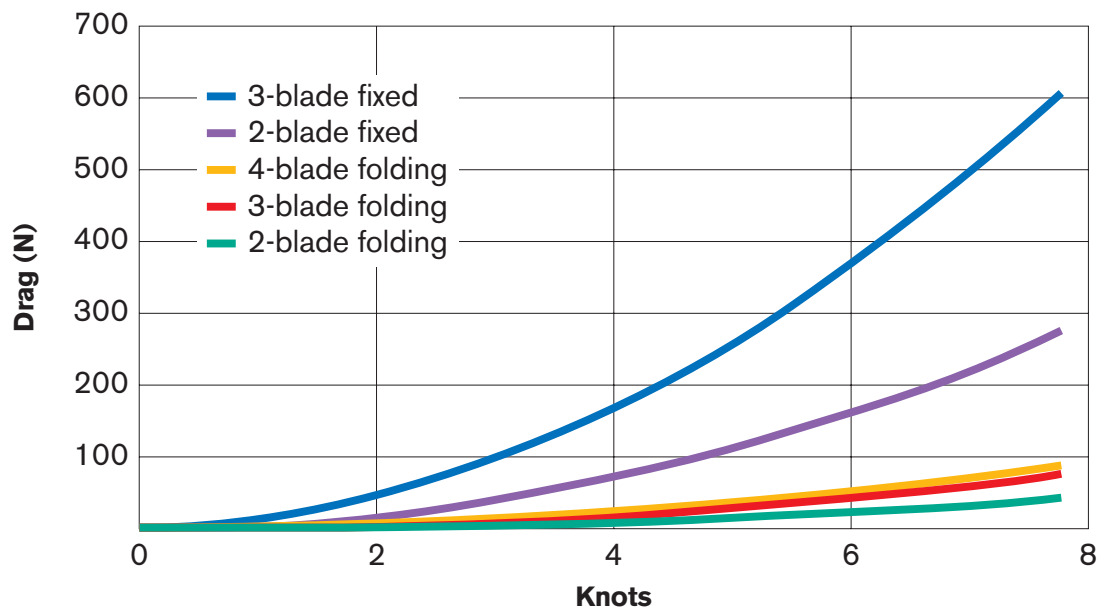
3- AND 4-BLADE FOLDING PROPELLERS



Volvo Penta's folding propellers for sail boats combines the folding propeller's low drag under sail with reverse thrust and speed when the engine is used, fully comparable with fixed propellers. A conical toothed section ensures that the propeller blades are in the correct position. With no complicated machinery or mechanisms to cause trouble, the propellers provide superb reliability. The folding propellers are manufactured from a nickel-aluminium-bronze alloy which ensures no growth and excellent corrosion resistance. It is fitted with a bushing at the hub, this absorbs the shock which the propeller and shaft are subjected to during quick shifts forwards and backwards.

The folding propellers are available as Right Hand and Left Hand rotating propellers for both S-drive and shaft installations. The folding propeller's greatest advantage is its low drag under sail. The folding propellers offer outstanding manoeuvrability. Despite being a folding propeller, reverse thrust is fully comparable with that of a fixed propeller.

The 3- and 4-blade propellers offer more or less the same speed as a 3-blade fixed propeller across the full rev range. The huge benefit shows in an increase in sailing speed of up to 1.5 knots due to the low drag. Up to 8 times lower drag compared to a 3-blade fixed propeller. And, what's more, the unique blade profile promotes an extremely quiet and vibration free operation.



Water drag were measured in a test carried out by SSPA Maritime Consulting. Propellers mounted on S-drives were measured. The lower drag produced by the Volvo Penta folding propellers can boost sailing speed by up to 1.5 knots.

3- AND 4-BLADE FOLDING PROPELLERS cont.

Blade kits, 3- and 4-blade *

Ø PITCH	3-blade LH	3-blade RH	4-blade LH	4-blade RH
14x7		3583409		
14x8		3583410		
14x9	3583382	3583411		
15x9	3583283	3583412		
15x10	3583384	3583413		
16x10	3583385	3583414		
16x11	3583386	3583415		
17x11	3583387	3583416		
17x12	3583388	3583417		
18x12	3583389	3583418		
18x13	3583390	3583419		
18x14	3583391	3583420		
18x15	3583392	3583421		
18x16	3584031	3583422		
19x16	3583393	3583423		
20x14			3583917	3583918
21x15			3583919	3583920
22x16			3583921	3583922
22x18			3583923	3583924
22x20			3583925	3583926

Hub kits, 3-blade *

3-blade					
HUB KIT, S-drive 110/S, 120/S, MS25S/SR 3858955	HUB KIT Shaft 25 mm, Cone ratio 1:10, Wedge 6 mm, 3583424	HUB KIT Shaft 30 mm, Cone ratio 1:10, Wedge 8 mm, 3583425	HUB KIT Shaft 1", Cone ratio 1:16, Wedge 1/4", 3583426	HUB KIT Shaft 1 1/4", Cone ratio 1:16, Wedge 5/16", 3583427	HUB KIT, Pre-drilled, 3583428
Propeller size has to be calculated to match engine and gear ratio. Use calculation program or propeller diagrams.					

Hub kits, 4-blade *

4-blade							
HUB KIT, S drive 120/S, MS25S 3583927	HUB KIT, Shaft 25 mm, Taper 1:10, Key 6 mm 3583928	HUB KIT, Shaft 30 mm, Taper 1:10, Key 8 mm 3583929	HUB KIT, Shaft 35 mm, Taper 1:10, Key 10 mm 3583930	HUB KIT, Shaft 40 mm, Taper 1:10, Key 12 mm 3584137	HUB KIT, Shaft 1 1/4", Taper 1:16, Key 5/16 3583931	HUB KIT, Shaft 1 1/2", Taper 1:16, Key 3/8 3583932	HUB KIT, Pre-drilled, 3583933
Propeller size has to be calculated to match engine and gear ratio. Use calculation program or propeller diagrams.							


* For a complete propeller, order one blade kit and one hub kit.

BRONZE PROPELLERS FOR SHAFT INSTALLATION

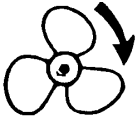


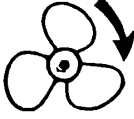
A complete range of 2-, 3- and 4-blade bronze propellers for inboard installations makes the choice easy. All propellers are available as Right Hand rotating propellers and some 4-blade also as Left Hand rotating propellers. The propellers are available for shaft diameters from 25 mm up to 45 mm.

2-blade bronze propeller, blade area 34%, RH

Ø x PITCH	
14 x 8 x 25	41101400
14 x 9 x 25	41101497
14 x 10 x 25	41101402
14 x 11 x 25	41101403
14 x 12 x 25	41101404
15 x 10 x 25	41101405
15 x 11 x 25	41101406
15 x 12 x 25	41101407
15 x 13 x 25	41101408
15 x 14 x 25	41101409
16 x 8 x 25	41101410
16 x 9 x 25	41101411
16 x 10 x 25	41101412
16 x 11 x 25	41101413
16 x 12 x 25	41101498
16 x 13 x 25	41101499
16 x 14 x 25	41101500
16 x 15 x 25	41101501
17 x 11 x 25	41101502
17 x 12 x 25	41101503
17 x 13 x 25	41101504
17 x 14 x 25	41101505
17 x 15 x 25	41101506
17 x 16 x 25	41101507
18 x 14 x 25	41101508
18 x 15 x 25	41101509
20 x 14 x 30	41101414
20 x 15 x 30	41101415
21 x 13 x 30	41101416

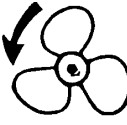
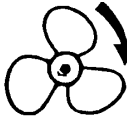
3-blade bronze propeller, blade area 52%, RH

Ø x PITCH	
14 x 8 x 25	41101459
14 x 9 x 25	41101460
14 x 10 x 25	41101461
14 x 11 x 25	41101462
15 x 11 x 25	41101464
15 x 12 x 25	41101465
15 x 13 x 25	41101466
16 x 10 x 25	41101467

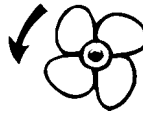
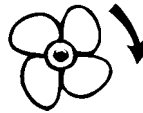
Ø x PITCH	
16 x 11 x 25	41101469
16 x 12 x 25	41101470
16 x 13 x 25	41101471
16 x 14 x 25	41101472
17 x 11 x 25	41101474
17 x 12 x 25	41101475
17 x 13 x 25	41101477
17 x 14 x 25	41101478
17 x 15 x 25	41101480
15 x 10 x 30	41101463
16 x 10 x 30	41101468
17 x 10 x 30	41101473
17 x 14 x 30	41101479
17 x 15 x 30	41101481
17 x 16 x 30	41101516
18 x 10 x 30	41101527
18 x 11 x 30	41101482
18 x 12 x 30	41101483
18 x 15 x 30	41101484
18 x 16 x 30	41101485
19 x 11 x 30	41101486
19 x 12 x 30	41101488
19 x 13 x 30	41101489
19 x 17 x 30	41101491
19 x 18 x 30	41101492
20 x 11 x 30	41101493
20 x 12 x 30	41101526
20 x 13 x 30	41101522
20 x 14 x 30	41101525
21 x 14 x 30	41101496
17 x 12 x 35	41101476
17 x 16 x 35	41101523
19 x 11 x 35	41101487
19 x 13 x 35	41101490
20 x 12 x 35	41101494
20 x 13 x 35	41101495
20 x 15 x 35	41101275
21 x 14 x 40	41101528
22 x 16 x 40	41101524

BRONZE PROPELLERS FOR SHAFT INSTALLATION cont.

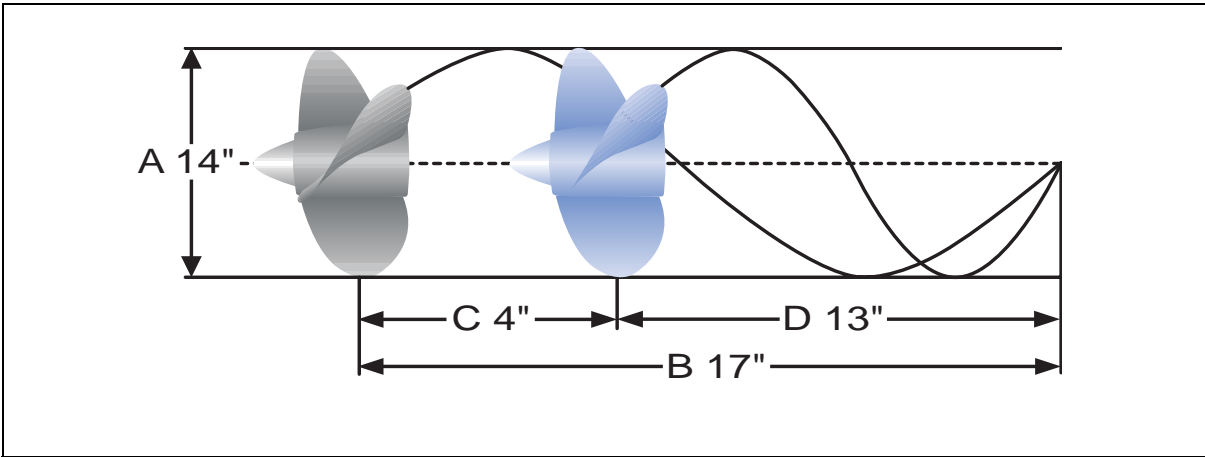
3-blade bronze propeller, blade area 55%

Ø x PITCH		
17 x 16 x 30		41101417
18 x 11 x 30		41101418
18 x 19 x 30		41101419
19 x 11 x 30		41101420
19 x 17 x 30		41101422
19 x 18 x 30		41101423
19 x 19 x 30		41101424
19 x 15 x 35		41101421
19 x 19 x 35		41101425
19 x 21 x 35		41101426
20 x 18 x 40		41101427
20 x 21 x 40		41101428
20 x 29 x 45	41101430	41101431

4-blade bronze propeller, High Skew, blade area 74%

Ø x PITCH		
16 x 19 x 35		41101534
17 x 19.5 x 40		41101447
18 x 18 x 40	41101433	41101432
18 x 19 x 40	41101435	41101434
18 x 21.5 x 40	41101448	41101449
19 x 18 x 40	41101437	41101436
19 x 19 x 40	41101439	41101438
20 x 21.5 x 40		41101454
20.5 x 22 x 40		41101457
21 x 22 x 40		41101458
21 x 28 x 40	41101532	41101533
22 x 27 x 40		41101515
18.5 x 23 x 45	41101450	41101451
19 x 20 x 45		41101452
19 x 25 x 45		41101453
20 x 23 x 45	41101441	41101440
20 x 24 x 45	41101455	41101456
22 x 26 x 45	41101442	41101443
22 x 29 x 45	41101445	41101444
23.5 x 30.5 x 45	41101530	41101531
21 x 24 x 50		41101540
21 x 25 x 50		41101539
22 x 30 x 50		41101538
23.5 x 30.5 x 50		41101510
26 x 34 x 50		41101513
26 x 35 x 50		51101514

PROPELLERS



From the high speed performance of single and Duoprop drive systems to the low drag efficiency of the unique 4-blade sail boat propeller, Volvo Penta is always one step ahead in developing propellers. Our expertise has resulted in new, pioneering developments, with even greater emphasis on performance, high quality and reliability. The final link in the chain – the propeller – is no exception to the rule.

Every propeller in our range has been designed with precision, manufactured and tested to ensure its optimum efficiency. If your boat's propeller is matched to its drive, you can be sure of the synergetic effect that yields optimum performance, running costs and optimum service life.

Propeller dimensions

The dimensions of a propeller are usually stated with two measurements, for example, 14 x 17. The first of these two measurements refers to the diameter of the propeller – 14" (A). The second measurement refers to the pitch of the propeller – 17" (B).

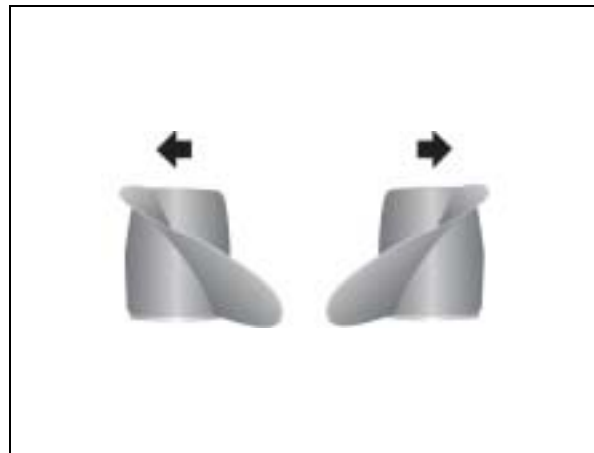
Note! This does not apply to DP propellers, the dimensions of which are stated by means of a special sizing code.

Diameter

A rotating propeller describes a circle (A) – the diameter of this circle is also the diameter of the propeller.

Pitch

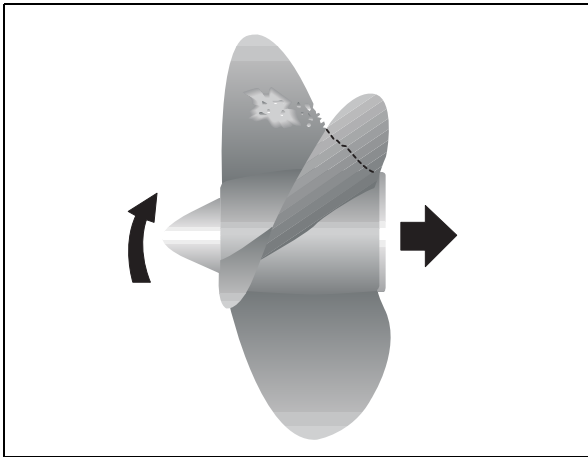
The pitch of the propeller refers to the distance (forwards or backwards) the propeller moves in one complete rotation. This can simply be compared to a screw being screwed into a piece of wood. As water is not a solid substance the propeller will move some 70 to 90 % of this distance, D. The remaining 10 to 30 % difference is known as "slip", (C).



Right or left hand propeller?

When replacing a propeller it is absolutely essential to choose the correct type of propeller. Should the propeller rotate right or left?

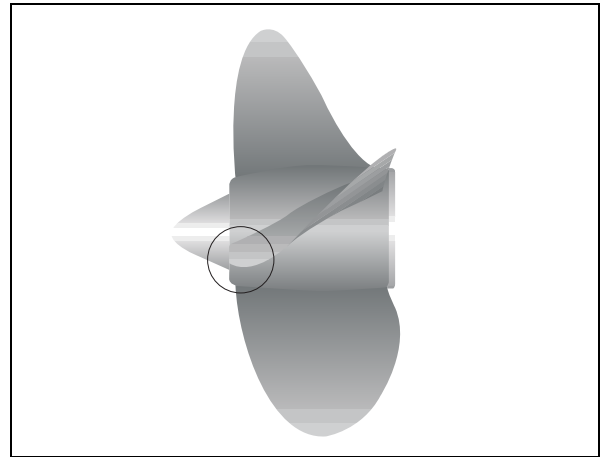
PROPELLERS



Cavitation and cavitation corrosion

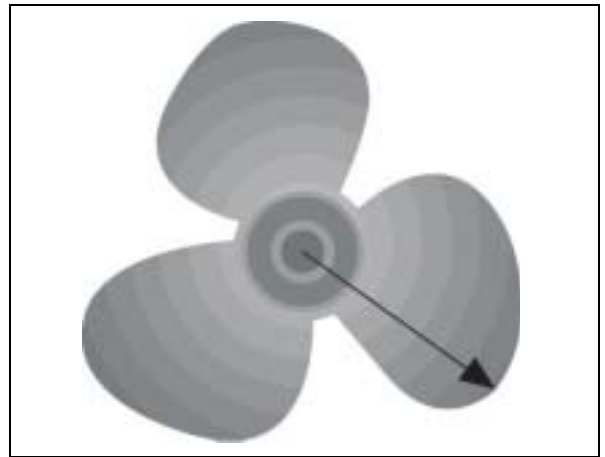
When a propeller moves through water, the water is forced against the pressure side of the propeller. The faster the propeller blades cut through the water the lower the pressure on the reverse side of the blades. At a certain speed, which varies from case to case, the pressure on the reverse side of the blade becomes so low that the water begins to “boil” and bubbles of steam mixed with air are formed. The effect of cavitation can then be felt as the bubbles make the blades of the propeller “thicker” and increases the resistance of the water to the propeller blades thus reducing their effective performance.

The bubbles of steam and air “ambulate” about the blade and when they reach an area where the water pressure is higher, they are forced together and they implode. The energy released can be compared with a water hammer that chips away fragments of the propeller blade. The resulting damage is similar to corrosion and is therefore known as cavitation corrosion. The reasons for cavitation can be many; an unevenness of the propellers leading edge, exaggerated cupping, blade edges that are too sharp or poor surface finish are a few such reasons.



Cupping

Cupping means that the trailing edges of the propeller blades have been bent in order to increase its pitch. Cupping is most suited to propellers for powerful engines and gives them a better “grip” in the water.



Measuring the diameter of a propeller

It may sometimes be difficult to find the size number on a propeller. In such cases, measure from the centre of the propeller hub to the tip of one of the blades and then multiply this figure by two.