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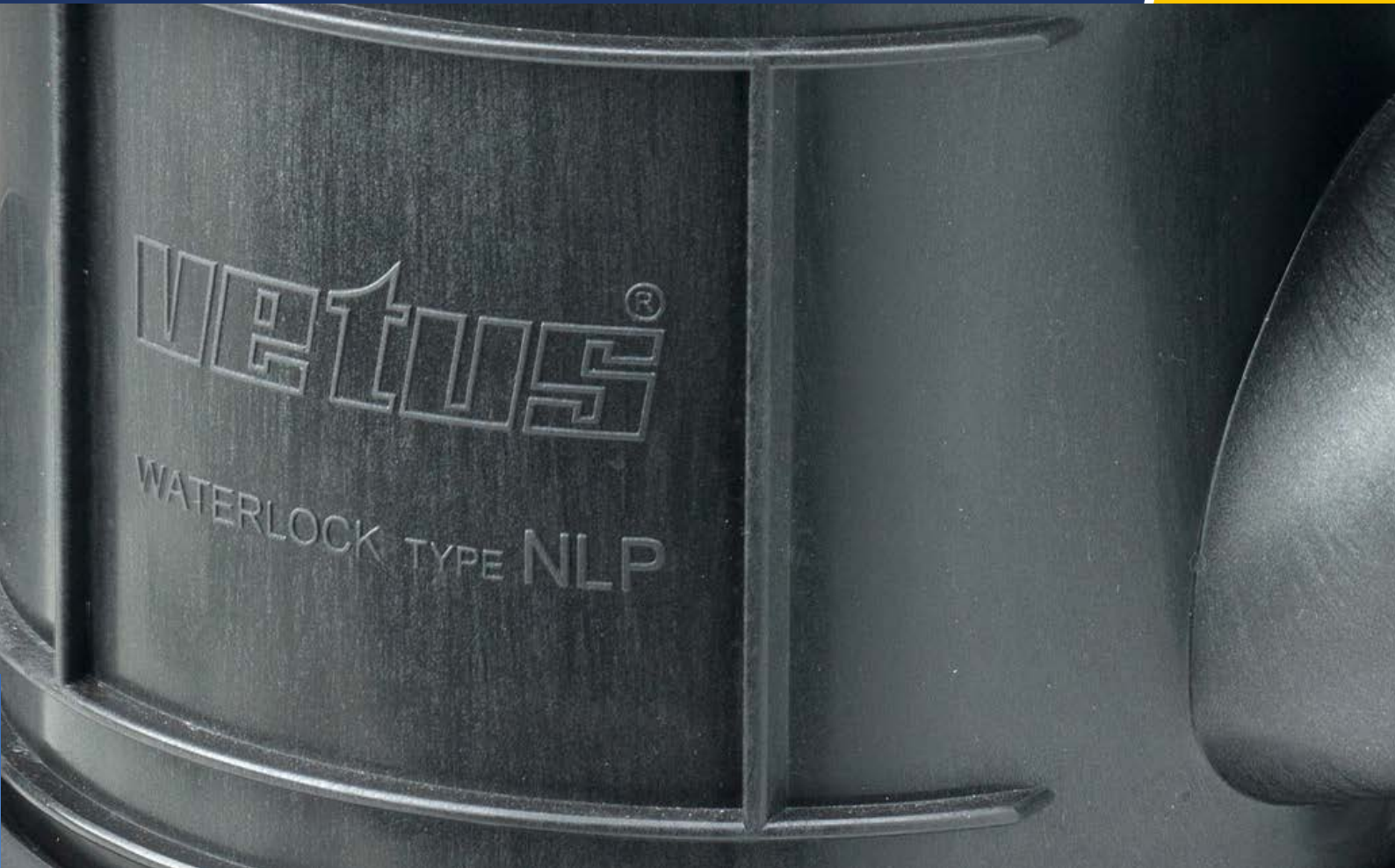
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HD WATERLOCKS

NAVIDURIN[®]

HIGH PERFORMANCE POLYMER



VETUS proudly presents **NAVIDURIN[®]**

- A special composite blend is capable of handling temperatures up to 260° C
- Optimized for use in recreational and commercial vessels
- Superior to Acrylonitrile Butadiene Styrene (ABS) in temperature and pressure resistance
- Outperforms Glass Reinforced Polyester (GRP) by 170%
- Suitable for injection moulding
- Used on multiple products around the engine



NAVIDURIN[®]

HIGH PERFORMANCE POLYMER



ABOUT NAVIDURIN[®]

NAVIDURIN[®] is a proprietary composite polymer blend that is optimized for use in situations where pressure and temperature exceed regular conditions, e.g. in marine exhaust systems, and is proof of our commitment to create innovative solutions. The combination of additives brings a unique set of properties that outperforms traditional materials used in the most demanding environment on board on critical values. NAVIDURIN[®] is more durable, has a higher resistance to heat and pressure and is longer lasting than conventional polymers. A high-performing cost effective alternative to GRP (Glass Reinforced Polyester) and ABS (Acrylonitrile Butadiene Styrene) solutions. This polymer is made for designers who desire precision-engineered products without maintenance.



USE OF NAVIDURIN[®]

NAVIDURIN[®] is used in recreational and in commercial vessels. The blend delivers performance comparable to and exceeding high-performance GRP, including good strength and durability. In addition NAVIDURIN[®] delivers good finishing qualities and offers the same freedom in design as ABS, making it an excellent choice for use in products for thermal and pressurized applications. So whether it's an exhaust for a small cruiser or a cooling water strainer for a commercial vessel – NAVIDURIN[®] is up to the challenge.

Summary

- Heat resistant with a heat deflection temperature (HDT A (1.8 MPa)) of 250 °C according to international standard DIN EN ISO 75
- High resistance to elongation: tensile strength of 25,400 psi (A.B.Y.C requirement is 10,900 psi)
- Flexural modulus of 1,232,820 psi (A.B.Y.C requirement is 500,000psi)
- Precision moulded for perfect alignment
- Lightweight
- Completely corrosion free
- Galvanically isolated
- Heat aging stabilized
- CE. and A.B.Y.C. approved

Specifications	NAVIDURIN [®]	Polyester resin	Class 1 Epoxy Vinyl Ester resin
Material temperature resistance	260 °C	150 °C	174 °C
Continuous operating temperature	180 °C	120 °C	140 °C
Maximum operating temperature	250 °C	150 °C	174 °C
Temperature for deflection under load (1.8MPa, 18 bar, 260 psi)	250 °C	120 °C	140 °C
Tensile strength	175(0) Mpa (Bar) 25,400 psi	100(0) Mpa (Bar) 14,500 psi	114(0) Mpa (Bar) 16,530 psi
Flexural strength	300(0) Mpa (Bar) 43,500 psi	140(0) Mpa (Bar) 20,300 psi	167(0) Mpa (Bar) 24,200 psi





HEAVY DUTY WATERLOCK - NLPHD & HPW SERIES

Both the NLPHD series and the HPW series are perfect for applications where the system is put to the test such as commercial or coastguard vessels. The ability to handle extreme conditions combined with the rotating bodies and hose connections make both series an economical alternative to high priced and high-end custom made solutions.

High-performance material and rotating hose connections for a near custom installation - who needs GRP?

The NLPHD series is perfect for medium to large size sail- and motorboats, with exhaust connections varying from \varnothing 40 to 90 mm, while the HPW leans more to the commercial vessels with exhaust connections varying from \varnothing 102 to 152 mm.



NLPHD Series overview

Type	Description	Diameter in (mm)	Diameter out (mm)	Capacity (litres)
NLP40HD	High Performance Waterlock with 360° rotating hose connections (black)	40	40	4,5
NLP45HD	High Performance Waterlock with 360° rotating hose connections (black)	45	45	4,5
NLP50HD	High Performance Waterlock with 360° rotating hose connections (black)	50	50	4,5
NLP50SHD	High Performance Waterlock with 360° rotating hose connections (black)	50	50	10
NLP60HD	High Performance Waterlock with 360° rotating hose connections (black)	60	60	10
NLP75HD	High Performance Waterlock with 360° rotating hose connections (black)	75	75	10
NLP90HD	High Performance Waterlock with 360° rotating hose connections (black)	90	90	10
NLP50SWHD	High Performance Waterlock with 360° rotating hose connections (white)	50	50	10
NLP60WHD	High Performance Waterlock with 360° rotating hose connections (white)	60	60	10
NLP75WHD	High Performance Waterlock with 360° rotating hose connections (white)	75	75	10
NLP90WHD	High Performance Waterlock with 360° rotating hose connections (white)	90	90	10

HPW Series overview

Type	Description	Diameter in (mm)	Diameter out (mm)	Capacity (litres)
HPW102	High Performance Waterlock with 360° rotating hose connections (black)	102	102	55
HPW127	High Performance Waterlock with 360° rotating hose connections (black)	127	127	55
HPW152	High Performance Waterlock with 360° rotating hose connections (black)	152	152	55
HPW127152	High Performance Waterlock with 360° rotating hose connections (black)	127	152	55

HPW Series power table

Exhaust hose size	max. 0,1 bar back pressure allowed	max. 0,15 bar back pressure allowed	max. 0,2 bar back pressure allowed	max. 0,25 bar back pressure allowed
102 mm	up to 140 hp / 103 kW	up to 211 hp / 155 kW	up to 281 hp / 206 kW	up to 352 hp / 258 kW
127 mm	up to 218 hp / 160 kW	up to 327 hp / 240 kW	up to 436 hp / 320 kW	up to 545 hp / 400 kW
152 mm	up to 312 hp / 229 kW	up to 469 hp / 344 kW	up to 625 hp / 458 kW	up to 781 hp / 573 kW



HEAVY DUTY COOLING WATER STRAINER FTR33038M

The trusted FTR330 performs very well above the waterline, but what if you have no other option than to position the filter below the waterline? The new FTR33038M is your solution!

This filter has a heavy duty filter housing made out of NAVIDURIN®, and features 38 mm hose connections. On top of the housing you can find a freshly designed aluminium lid, which allows easy inspection without dismantling. The FTR33038M is tested up to a maximum of 8 bar, which means the filter is safe to place below the waterline!

The combination of the heavy duty body and the metal lid makes this filter ideal to use on faster boats, where pressure can easily build up when the speed increases. Because of the compact dimensions (ø148 mm by 162 mm) you can always find a suitable spot on your vessel.



Highlights

- Easy inspection without dismantling
- New easily removable aluminium cover
- Robust and durable filter housing made from NAVIDURIN®
- 38 mm hose connections
- Tested up to a maximum of 8 bar, so suitable for use below the waterline
- Intended for installation in fast semi-planing and planing boats.

Type	Description	Internal hose diameter (mm)	Internal hose diameter (inch)	Recommended input l/min
FTR33038M	Heavy duty water strainer type 330 with aluminium inspection lid	38,1	1 1/2	200



3 year warranty, unique in the market!

All VETUS boat equipment products come with a 3 year warranty. Because of our long experience, careful choice of materials and stringent quality controls, we have the confidence to offer this warranty. For advice, installation and service you can always rely on our worldwide network of VETUS dealers.

