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EXHAUST SYSTEMS

HPW SERIES

HEAVY DUTY WATERLOCKS



VETUS proudly presents the HPW series

- Special composite blend (NAVIDURIN®) is capable of handling temperatures up to 260° C
- High capacity waterlift design providing complete security for your engine
- Excellent sound attenuation with minimal back pressure
- Rotating body and hose connections for easy installation
- Complete with floor mounting brackets



HPW SERIES

HEAVY DUTY WATERLOCK



HEAVY DUTY WATERLOCK - HPW SERIES

Made of the special blended composite NAVIDURIN® which is temperature resistant up to 260°C - these Heavy Duty waterlocks outperform standard GRP materials by 170%! The same applies for the thermal resistance to deformation under pressure. The HPW series is perfect for applications where the system is put to the test such as commercial or coastguard vessels.

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

The ability to handle extreme conditions combined with the rotating bodies and hose connections makes the HPW series an economical alternative to high priced and high-end custom made solutions.

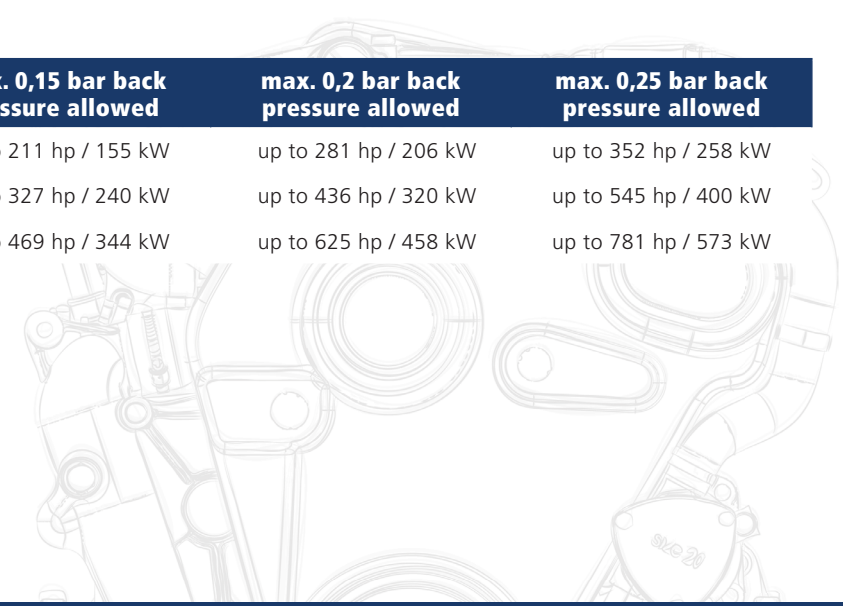


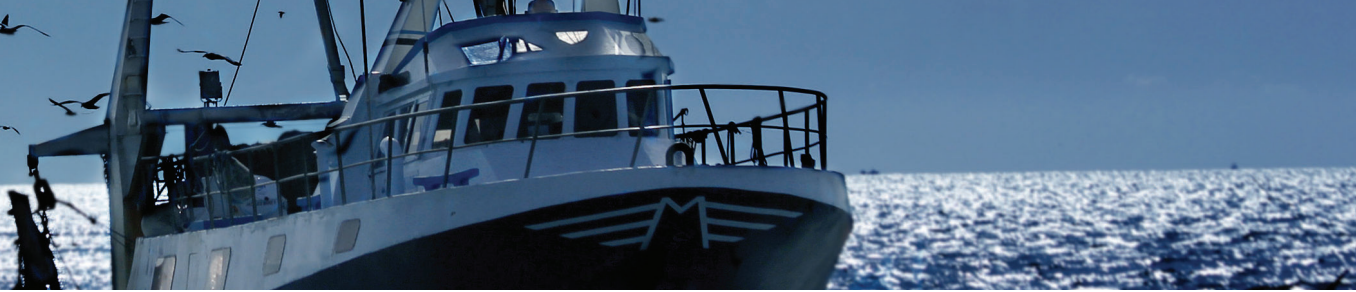
HPW Series overview

Type	Description	Diameter in	Diameter out	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





NAVIDURIN[®]

HIGH PERFORMANCE POLYMER

ABOUT NAVIDURIN[®]

NAVIDURIN[®] is a proprietary composite polymer blend that is optimized for use in marine exhaust systems and 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 (Reinforced Plastic) solutions. A polymer 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 (Acrylonitrile Butadiene Styrene), making it an excellent choice for use in products for thermal applications. So whether it's an exhaust for a small cruiser or one for a commercial vessel - NAVIDURIN[®] is up to the challenge.



Summary

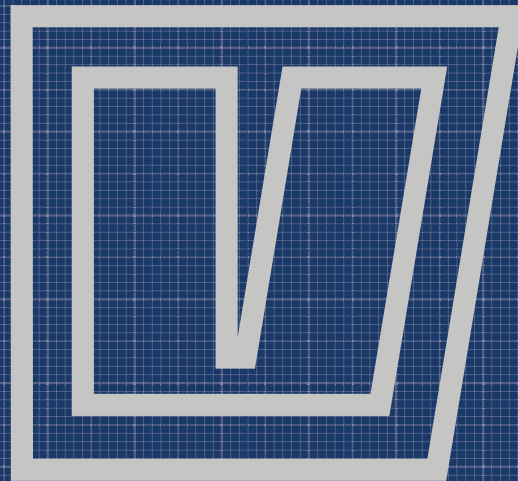
- Heat resistant with a heat deflection temperature (HDT A (1.8 MPa)) of 250 °C according to international standard DIN EN ISO 75
- High resistance to elongation: tensile strength of 25,400 psi (A.B.Y.C requirement is 10,900 psi)
- Flexural modulus of 1,232,820 psi (A.B.Y.C requirement is 500,000psi)
- 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



HPW SERIES

HEAVY DUTY WATERLOCK



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.

