

A WET EXHAUST SYSTEM

A 'dry' exhaust system causes a tremendous amount of noise and diesel exhaust smell. A diesel engine can easily produce an exhaust gas temperature of 600°C or more. However, reduction of exhaust gas temperature to about 40° to 50°C can be achieved by injecting the engine cooling water into the exhaust line. This is how a "wet" exhaust system works. In addition, the typical diesel exhaust smell is also considerably reduced.

Depending on the overall system design, the exhaust gas may flow through one or more of:

- Exhaust hose
- A waterlock/muffler
- A gooseneck
- A transom connector

Why VETUS exhaust systems

All VETUS exhaust systems meet the high standards our customers expect, with just some of the benefits highlighted below:

- All VETUS exhaust systems meet required ABYC standards
- Many system components come complete with rotating connections and bodies for easy installation of hoses from any angle
- Excellent noise reduction is combined with minimal back pressure
- Some available systems use a combination of gooseneck/muffler and waterlock/muffler
- The ASD airvent can be easily dismantled by hand for cleaning and all materials are fully corrosion resistant
- Exhaust hoses are extremely flexible, making installation quick and easy

VETUS OFFERS THE FOLLOWING EXHAUST COMPONENTS



Waterlocks type WLOCK
Waterlocks type LS
Dual stage waterlocks type NLP
Waterlock type MG
Gooseneck type WLOCKLT and LT
Waterlock/muffler type NLPH / NLPG

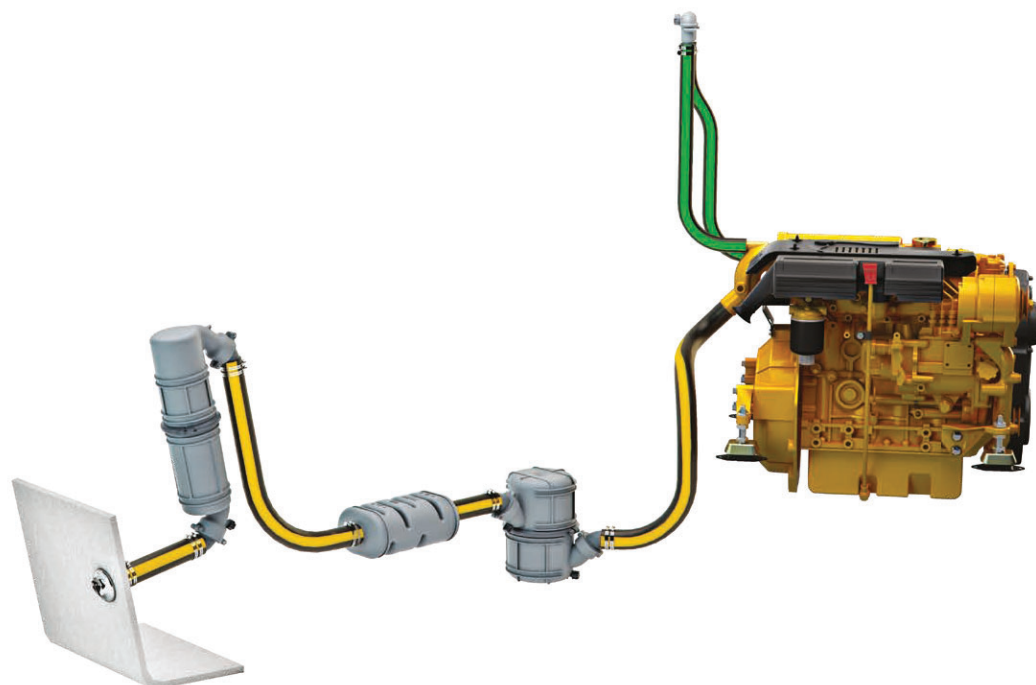


Up to 121hp with 0,1 bar back pressure
Waterlock type NLPHD

Up to 302hp with 0,1 bar back pressure
Waterlock type HPW (High Performance Waterlock)



Waterlock/muffler type NLPH
Mufflers type DEMP
Mufflers type MV and MF



PREVENTING WATER RUNNING BACK TO THE ENGINE

Installation above or below waterline

The cooling water injection point is crucial. If the water injection point is 15 cm or more above the waterline, the cooling water can be injected directly into the exhaust system. But when it is less than 15 cm above or even below the waterline, the cooling system can siphon water through the intake when the engine is turned off. Water can fill up the exhaust system and get back into the engine through the exhaust valves. This can be prevented by using a breather hose (1) in the cooling water system or an airvent (2).

Calculation tool

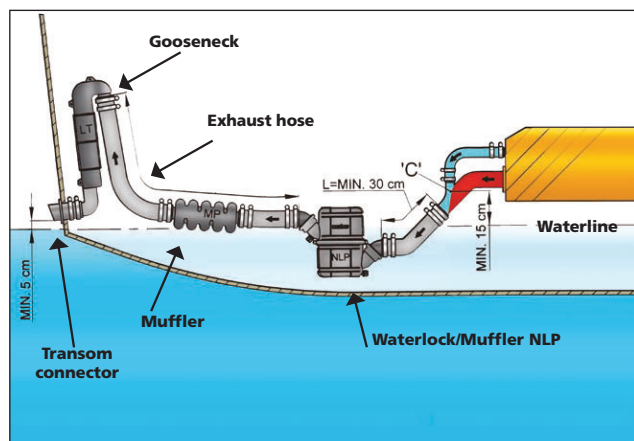
The waterlock capacity can be easily determined by the following formula:

$$2 \times \left(\frac{\pi}{4} \times D^2 \times L \right) \times 0,25 / 1000.000$$

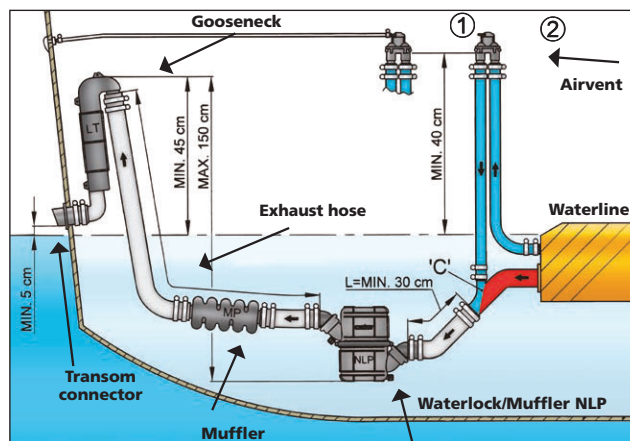
D = Internal diameter of the hose (mm)

L = Length of hose (mm)

Safety margin Volume 25% Water in hose Conversion to litres



Exhaust system with the water injection point "C" **15 cm or more** above the waterline.



Exhaust system with the water injection point "C" **below or less than 15 cm** above the waterline.

How to choose your perfect exhaust system

The combination of engine and waterlock determines the optimum sound attenuation. By using this table you can choose a waterlock which is suitable for your engine power and exhaust diameter.

Inlet mm	Exhaust mm	Type LP, MF, NLP, LSS, LSL, NLPD	Type MV	Type MGP, MGS, MGL, LSG, HPW
30	30	13,6 hp / 10 kW	-	-
40	40	24,5 hp / 18 kW	-	-
45	45	30 hp / 22 kW	-	-
50	50	38 hp / 28 kW	-	-
60	60	53 hp / 39 kW	-	46 hp / 34 kW
75	75	86 hp / 63 kW	-	75 hp / 55 kW
90	90	121 hp / 89 kW	141 hp / 103 kW	105 hp / 77 kW
102	102	155 hp / 114 kW	181 hp / 133 kW	136 hp / 100 kW
102	127	-	-	173 hp / 127 kW
127	127	241 hp / 177 kW	281 hp / 206 kW	211 hp / 155 kW
127	152	-	-	256 hp / 188 kW
152	152	345 hp / 254 kW	403 hp / 296 kW	302 hp / 222 kW
152	203	-	-	420 hp / 308 kW
203	203	-	-	539 hp / 396 kW
203	254	-	-	691 hp / 508 kW

Note

Values calculated at a back pressure of 0.1 bar. When a higher back pressure is allowed by the engine manufacturer, VETUS waterlocks can be used for engines with a higher output than indicated in this table.

WATERLOCKS

Easy installation

Once the engine of your boat has stopped a VETUS waterlock of the correctly chosen capacity will make sure that water will not run back into the engine. All VETUS waterlocks are provided with a drain plug for winter storage.

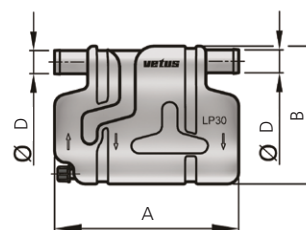
Type WLOCKLP

- Suitable for exhaust hose with an internal diameter of Ø 30 mm



WLOCKLP30

Type	Capacity (litre)	A (mm)	B (mm)	Ø (D) (mm)
WLOCKLP30	2.3	240 x 90	180	30



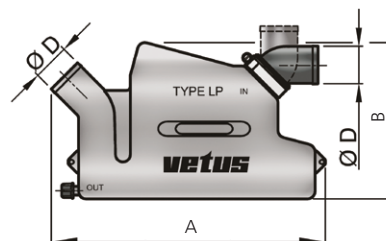
Type WLOCKLR

- Suitable for exhaust hose with internal diameter of Ø 40, 45 or 50 mm



WLOCKLR

Type	Capacity (litre)	A (mm)	B (mm)	Ø (D) (mm)
WLOCKL40R	4.3	372 x 110	211	40
WLOCKL45R	4.3	372 x 110	211	45
WLOCKL50R	4.3	372 x 110	211	50



Type WLOCKLS and WLOCKLP

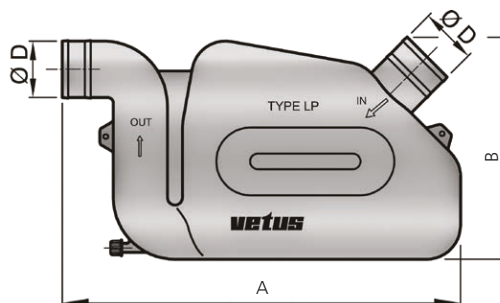
- Suitable for exhaust hose with internal diameter of Ø 50, 60, 75 or 90 mm



WLOCKL50S

WLOCKLP

Type	Capacity (litre)	A (mm)	B (mm)	Ø (D) (mm)
WLOCKL50S	10.5	530 x 138	290	50
WLOCKLP60	10.5	530 x 138	290	60
WLOCKLP75	10.5	530 x 138	290	75
WLOCKLP90	10.5	530 x 138	290	90



WATERLOCKS

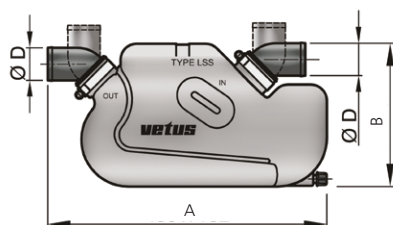
Long exhaust systems

Sometimes the exhaust line is so long that an extra large capacity waterlock is required to prevent water from running back into the engine. The VETUS waterlock type LS is the ideal solution.

Type LSSA

For standard hose connections

- Suitable for exhaust hose with internal diameter of Ø 40, 45 or 50 mm
- 360° Rotating inlet and outlet stubs
- Comes with 1 securing strap



Type	Capacity (litre)	A (mm)	B (mm)	Ø (D) (mm)
LSS40A	5.7	430 x 152	225	40
LSS45A	5.7	430 x 152	225	45
LSS50A	5.7	430 x 152	225	50

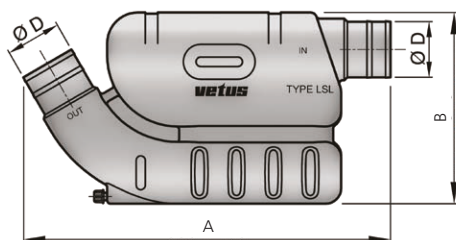
LSSA



Type LSL

For long relatively straight exhaust runs

- Suitable for exhaust hose with internal diameter of Ø 60, 75 or 90 mm
- Non-rotating inlet and outlet connections
- Comes with 2 securing straps



Type	Capacity (litre)	A (mm)	B (mm)	Ø (D) (mm)
LSL60	16	596 x 170	310	60
LSL75	16	596 x 170	310	75
LSL90	16	596 x 170	310	90

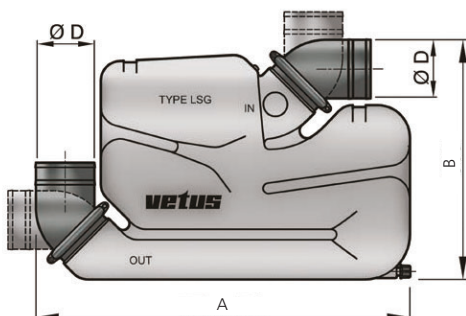
LSL



Type LSG

With incorporated check valve for extra security

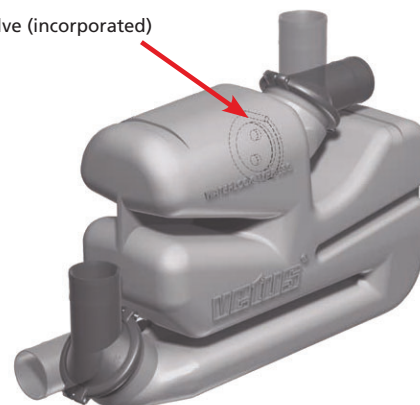
- Suitable for exhaust hose with internal diameter of Ø 60, 75 or 90 mm
- 360° Rotating inlet and outlet stubs
- Comes with 2 securing straps



Type	Capacity (litre)	A (mm)	B (mm)	Ø (D) (mm)
LSG60	17	578 x 170	368	60
LSG75	17	578 x 170	368	75
LSG90	17	578 x 170	368	90

LSG

Check valve (incorporated)



DUAL STAGE WATERLOCKS

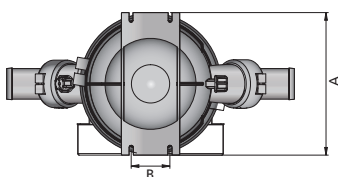
Type NLP

Superior silencing, minimal back pressure

Our NLP waterlocks are of dual stage construction featuring upper and lower chambers with a horizontal partition plate and a riser tube through the centre. The installation of the exhaust system, even in confined engine spaces, is greatly simplified due to the 360° rotating top chamber and rotating inlet and outlet connectors. For optimum silencing of exhaust noise you can also use a VETUS muffler and gooseneck, after the waterlock.

Including mounting brackets for bulkhead or floor mounting

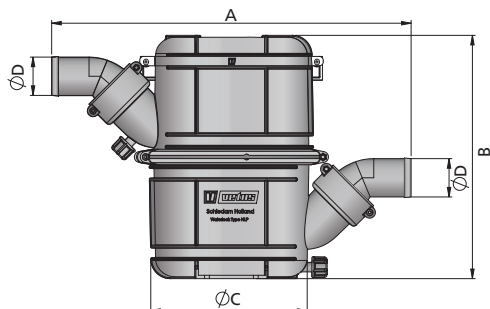
Type	NLP40	NLP45	NLP50	NLP50S	NLP60	NLP75	NLP90
A	186	186	186	240	240	240	240
B	50.5	50.5	50.5	75.5	75.5	75.5	75.5



Specifications

- Type NLP40/45/50 is suitable for exhaust hose with inside diameter of Ø 40, 45 or 50 mm and has a capacity of 4,5 litres
- Type NLP60/75/90/50S is suitable for exhaust hose with inside diameter of Ø 50, 60, 75 or 90 mm and has a capacity of 10 litres
- Comes with 2 securing straps

Type	Capacity (litre)	A (mm)	B (mm)	Ø (C) (mm)	Ø (D) (mm)
NLP40	4,5	385	254	165	40
NLP45	4,5	385	254	165	45
NLP50	4,5	385	254	165	50
NLP50S	10	515	362	210	50
NLP60	10	515	362	210	60
NLP75	10	515	362	210	75
NLP90	10	515	362	210	90



NLP50S*

NLP

Dimensions: plus or minus 2%

* Capacity of 10 litres, Ø 50 mm

WATERLOCK/MUFFLER

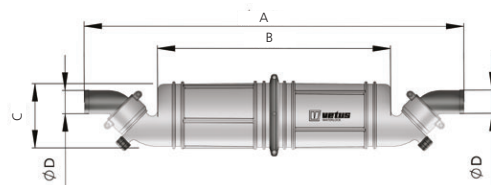
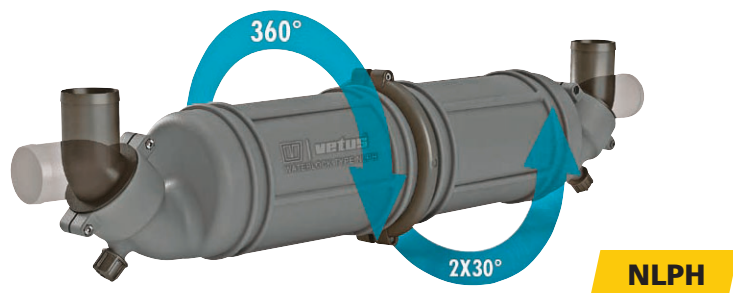
Designed for horizontal installation

The body of this waterlock / muffler consists of 2 rotatable chambers and fully rotatable hose connections, ensuring simple and time saving installation in a wide range of applications.

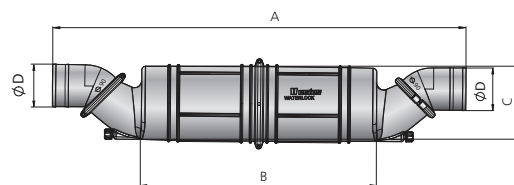
Type NLPH

Suitable for a wide range of applications

- Suitable for Ø 40, 45, 50, 60, 75 or 90 mm internal hose diameters
- Comes with 2 securing straps



Type 40, 45, 50



Type 60, 75, 90

Type	Capacity (litre)	A (mm)	B (mm)	C (mm)	Ø (D) (mm)
NLPH40	3	652	400	110	40
NLPH45	3	652	400	110	45
NLPH50	3	652	400	110	50
NLPH60	10	879	500	155	60
NLPH75	10	879	500	155	75
NLPH90	10	879	500	155	90

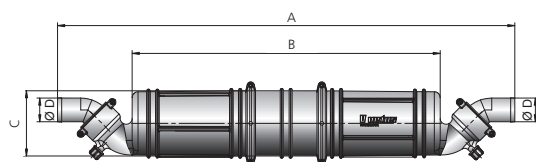
Type NLP3

The quietest waterlock in the world!

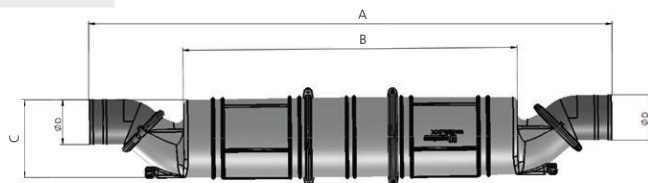
Due to its unique three chamber technology it has a sound reduction of an incredible 10dB more than the traditional waterlocks. Its rotatable chambers and hose connections ensure a quick and simple installation even in the most confined spaces.

- Suitable for Ø 40, 45, 50, 60, 75 or 90 mm internal hose diameters
- Comes with 2 securing straps

Type	Capacity (litre)	A (mm)	B (mm)	C (mm)	Ø (D) (mm)
NLP340	5	772	520	110	40
NLP345	5	772	520	110	45
NLP350	5	772	520	110	50
NLP360	10	1050	670	155	60
NLP375	10	1050	670	155	75
NLP390	10	1050	670	155	90
NLP31560	15	1200	825	155	60
NLP31575	15	1200	825	155	75
NLP31590	15	1200	825	155	90



Type 40, 45, 50



Type 60, 75, 90

WATERLOCKS SPECIFICALLY FOR LARGER BOATS

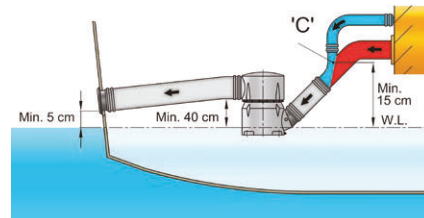
Excellent sound reduction, minimal back pressure

This type of waterlock is designed for modern high performance boats with one or two large engines which have little space to spare in the engine room. The outlet connection at the top can rotate through 360° and the inlet connection is at an angle of 45° upward. Type MG can only be installed in water injected exhaust systems. Its body is entirely made of synthetic materials, therefore not susceptible to corrosion or galvanic action.

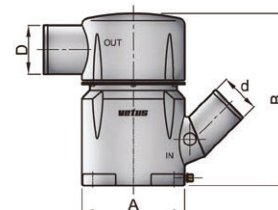
Type MG

Specifications

- Excellent sound reduction
- Minimal back pressure
- Drain valve for winter storage
- Suitable for Ø 90, 102, 127, 152, 209 or 250 mm internal hose diameters
- Capacities of 23, 75 or 130 litres
- Comes with stainless steel (AISI 316) clamp bands



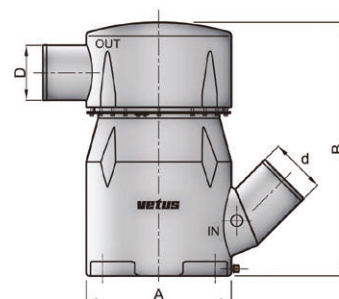
Type	Ø d (mm)	Ø D (mm)	Ø A (mm)	B (mm)	Capacity (litres)
MGP9090	90	90	270	450	23
MGP102102	102	102	270	450	23
MGP5455	127	127	270	450	23
MGP102127	102	127	270	450	23



MGP



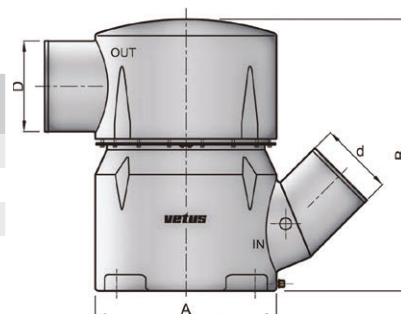
Type	Ø d (mm)	Ø D (mm)	Ø A (mm)	B (mm)	Capacity (litres)
MGS5455A	127	127	400	700	75
MGS5456A	127	152	400	700	75
MGS6456A	152	152	400	700	75



MGS



Type	Ø d (mm)	Ø D (mm)	Ø A (mm)	B (mm)	Capacity (litres)
MGL6458A	152	203	500	750	130
MGL8458A	203	203	500	750	130
MGL84510A	203	250	500	750	130



MGL

Flexible mountings for waterlocks, see page 100.

Note

For a minimum order of 10 pieces, we can supply these waterlocks with inlet or outlet connection at an angle of 0°, 15° or 30°.

WATERLOCKS SPECIFICALLY FOR COMMERCIAL BOATS

Heavy Duty Line

Heavy duty waterlocks

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. We offer two types of HD waterlocks; the NLPHD (4.5 - 10 litres) and the HPW (55 litres).

The NLP waterlock design is already known for its extraordinary noise reduction features, versatile installation options and extremely low back pressure. Made from NAVIDURIN®, this product can meet any challenge. The Heavy Duty Line is therefore unique in this market!

The HPW series is perfect for applications where the system is put to the test such as commercial or coastguard vessels.

For specifications see next page.



Specifications	VETUS Heavy Duty Composite (NAVIDURIN®)	GRP	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 (1.8 MPa, 18 Bar, 260 psi)	250 °C	120 °C	140 °C
Tensile strength	190 Mpa 1900 Bar 27,560 psi	100 Mpa 1000 Bar 14500 psi	114 Mpa 1140 Bar 16,530 psi
Flexural strength	300 Mpa 3000 Bar 43,500 psi	140 Mpa 1400 Bar 20,300 psi	167 Mpa 1670 Bar 24,200 psi

WATERLOCKS SPECIFICALLY FOR COMMERCIAL BOATS

NLPHD

Specifications

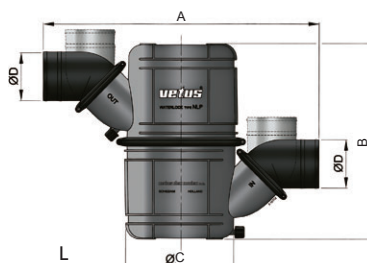
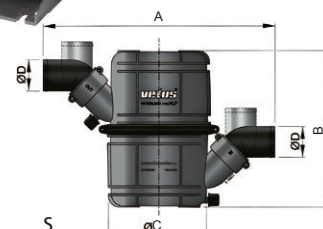
- Suitable for Ø 40, 45, 50, 60, 75 and 90 mm internal hose diameters
- Special composite blend (NAVIDURIN®) is capable of handling temperatures up to 260°C
- 360° Rotating bodies and hose connections (infinite connection possibilities)
- Comes with floor and bulkhead mounting brackets

Type	Colour	Hose Ø D mm	Capacity (litres)	Drawing S			Drawing L		
				A	B	C	A	B	C
NLP40HD	Black	40	4.5	385	254	165			
NLP45HD	Black	45	4.5	385	254	165			
NLP50HD	Black	50	4.5	385	254	165			
NLP50SHD	Black	50	10				515	362	210
NLP60HD	Black	60	10				515	362	210
NLP75HD	Black	75	10				515	362	210
NLP90HD	Black	90	10				515	362	210
NLP40WHD	White*	40	4.5	385	254	165			
NLP45WHD	White*	45	4.5	385	254	165			
NLP50WHD	White*	50	4.5	385	254	165			
NLP50SWHD	White*	50	10				515	362	210
NLP60WHD	White*	60	10				515	362	210
NLP75WHD	White*	75	10				515	362	210
NLP90WHD	White*	90	10				515	362	210

* Available in white on special order



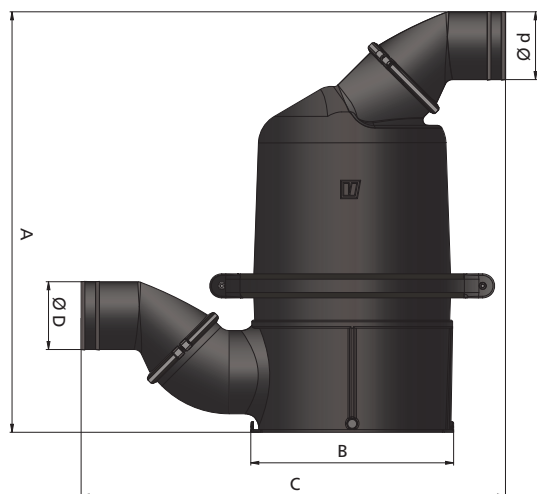
NLPHD



HPW

Specifications

- Suitable for Ø 102, 127 and 152 mm internal hose diameters
- 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

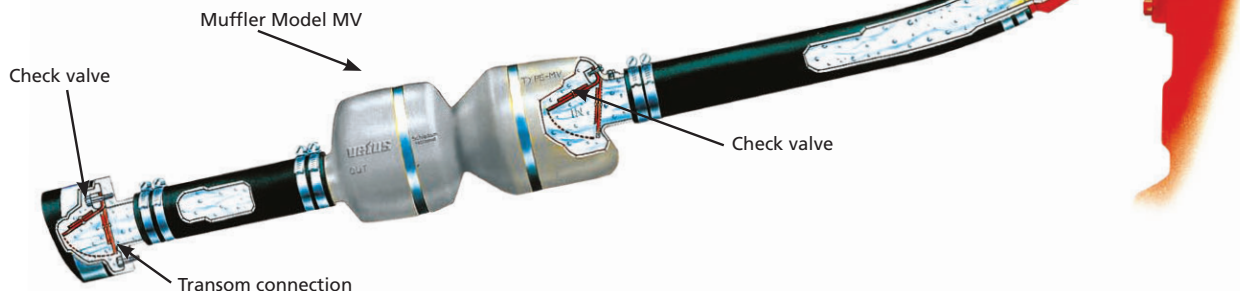


HPW

Type	Colour	Ø D mm	Ø d mm	Capacity (litres)	A mm	B mm	C mm
HPW102	Black	102	102	55	788	380	795
HPW127	Black	127	127	55	788	380	795
HPW152	Black	152	152	55	788	380	795
HPW127152	Black	127	152	55	788	380	795

EXHAUST SYSTEMS FOR HIGH-PERFORMANCE CRAFT

Especially developed for fast craft with powerful engines



This system is perfect for fast craft with powerful engines without available space for installation of a waterlock and/or gooseneck. By using one of these compact mufflers, you have tremendous reduction of exhaust noise with minimal back pressure. All parts are made of synthetic materials, corrosion free and light weight.

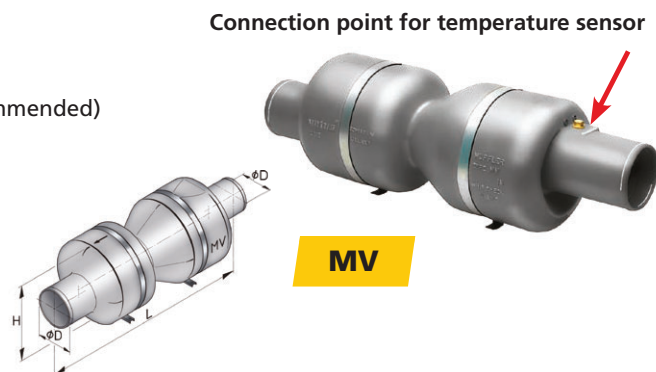
The transom connections for this system are available in stainless steel (AISI 316) or reinforced black plastic. Waterlock type MV and the transom connection are provided with a check valve which prevents the seawater from flowing into the engine.

Type MV

Specifications

- For hose diameters Ø 90, 100, 125 and 150 mm
- Comes with stainless steel (AISI 316) mounting brackets
- Temperature sensor for a raw water alarm is optional (recommended)
See page 98

Type	Ø D (mm)	Ø H (mm)	L (mm)	Capacity (litre)
MV090	90	210	702	11,5
MV100	100	210	702	11,5
MV125	125	320	910	37
MV150	150	320	910	37

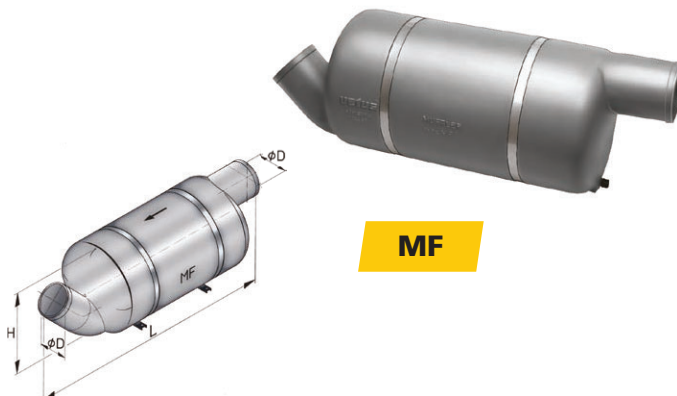


Type MF

Specifications

- For hose diameters Ø 90, 102, 127 and 152 mm
- Comes with stainless steel (AISI 316) mounting brackets

Type	Ø D (mm)	Ø (mm)	L (mm)	Capacity (litre)
MF090	90	210	728	13
MF100	102	210	735	13
MF125	127	320	940	43,5
MF150	152	320	959	43,5



Note

Both types should be installed exclusively in combination with an approved reinforced rubber exhaust hose (see page 406).



MUFFLER

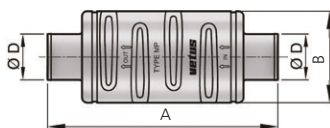
Type DEMPMP

Better noise reduction

The construction of this muffler causes almost no resistance to the free flow of the exhaust gases. It creates additional mixing of the water inside the exhaust line which results in even better noise reduction.

- Suitable for Ø 40, 45, 50, 60, 75, 90 or 102 mm internal hose diameters

Type	A (mm)	B (mm)	Ø D (mm)
DEMPMP40	368 x 108	158	40
DEMPMP45	368 x 108	158	45
DEMPMP50	368 x 108	158	50
DEMPMP60	368 x 108	158	60
DEMPMP76	456 x 130	180	75
DEMPMP90	456 x 130	158	90
DEMPMP100	580 x 168	158	102



DEMPMP

MUFFLER AND GOOSENECK

Type NLPG

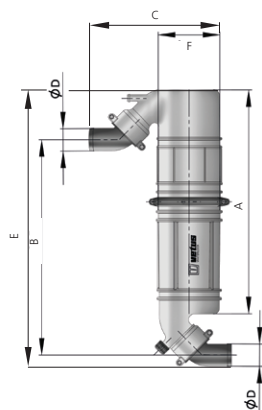
Perfect combination of a muffler and gooseneck

Combining the functions of a muffler and gooseneck saves installation time and space while maintaining the essential qualities of a good exhaust system with impressive negligible back pressure. The gooseneck prevents water back filling the exhaust and the muffler creates additional water mixing to further reduce the exhaust noise.

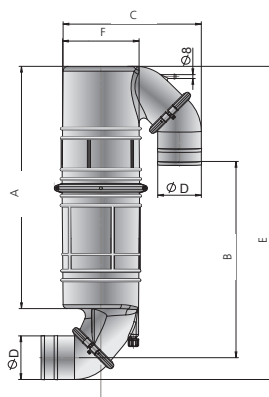
Specifications

- Suitable for Ø 40, 45, 50, 60, 75 or 90 mm internal hose diameters
- Fully rotatable sections and hose connections to ensure easy installation
- Comes with a hose stub to connect the air vent

Type	Capacity (litre)	A (mm)	B (mm)	Ø C (mm)	Ø (D) (mm)	E (mm)	Ø F (mm)
NLPG40	3	385	400	110	40	494	110
NLPG45	3	385	400	110	45	494	110
NLPG50	3	385	400	110	50	494	110
NLPG60	10	405	500	285,3	60	646,4	160
NLPG75	10	405	500	285,3	75	646,4	160
NLPG90	10	405	500	285,3	90	646,4	160



Type NLPG40 - 45 - 50



Type NLPG60 - 75 - 90



NLPG

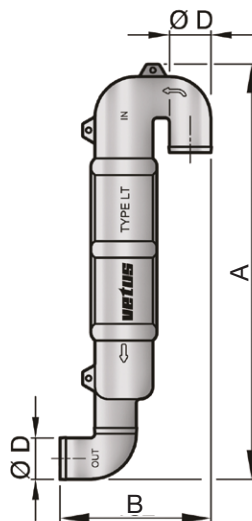
GOOSENECK

The gooseneck raises the exhaust line above the waterline and provides additional noise reduction. The outlet fits directly to all VETUS rubber transom connectors.

Type WLOCKLT

This gooseneck is suitable for exhaust hose with an internal diameter of Ø 40, 45, 50 or 60 mm. Engines with a Ø 57 mm exhaust elbow can be connected to a Ø 60 mm VETUS exhaust hose and use Ø 60 mm exhaust components.

Type	A (mm)	B (mm)	Ø D (mm)
WLOCKLT40	502 x 135	182	40
WLOCKLT45	502 x 135	182	45
WLOCKLT50	502 x 135	182	50
WLOCKLT60	502 x 135	182	60

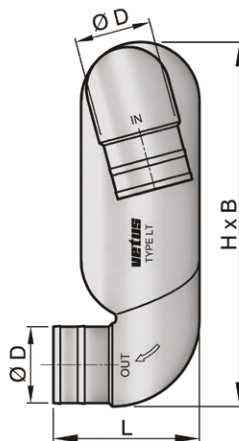


WLOCKLT

Type LT

This type is suitable for exhaust hose with an internal diameter of Ø 65, 75, 90, 102, 127 or 152 mm. Supplied with stainless steel (AISI 316) mounting brackets.

Type	L (mm)	H (mm)	B (mm)	Ø D (mm)
LT 65	155	500	235	65
LT 75	155	500	235	75
LT 90	210	525	300	90
LT 102	210	525	300	102
LT 110	210	525	300	110
LT 127	275	565	380	127
LT 152	275	565	380	152



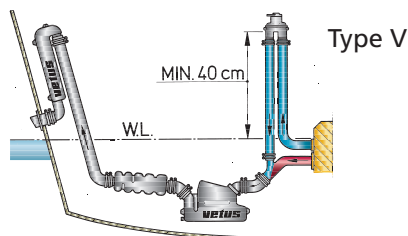
LT

AIRVENTS

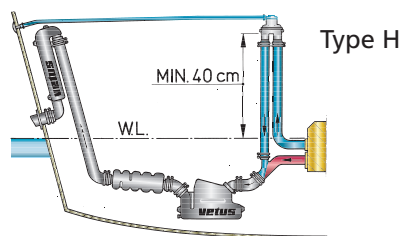
Anti-siphoning

When the cooling water injection point is less than 15 cm above the waterline, the cooling system can siphon water through the intake when the engine is turned off. Water can siphon into the exhaust system and even into the engine itself. This can be prevented by using an airvent.

Type ASDV with pressure valve



Type ASDH with ventilation hose



Type ASDV with pressure valve

Less maintenance is needed

This air vent is made of synthetic material and is exchangeable with type AIRVENT due to the same fixing holes centres. It has a silicone anti-siphon pressure valve and is self-contained.

Specifications

- Types ASDV and type AIRVENTV can be used with hoses with an internal diameter of Ø 13, 19, 25 or 32 mm
- Type ASD38V be used with hoses with an internal diameter of Ø 38 mm and is ideal for toilets or holding tanks which are installed below the waterline

Type ASDH with ventilation hose

Constant bleed of cooling water

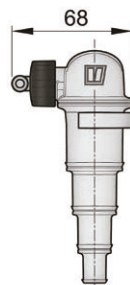
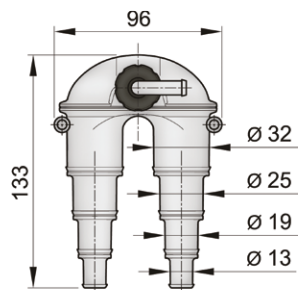
This air vent has a hose connection to the outside of the hull and has a constant bleed of cooling water through the hose while the engine is running. Type H comes with a skin fitting, hose clamps and 4 metres of hose.

Specifications

- Types ASDH and type AIRVENTH can be used with hoses with an internal diameter of Ø 13, 19, 25 or 32 mm
- Type ASD38H can be used with hose with an internal diameter of Ø 38 mm hose connection and is ideal for toilets or holding tanks which are installed below the waterline



Type		Ø Hose (mm)
ASDV	Anti Syphon Device with Valve	13 / 19 / 25 / 32
ASDH	Anti Syphon Device with Hose	13 / 19 / 25 / 32



ASDV

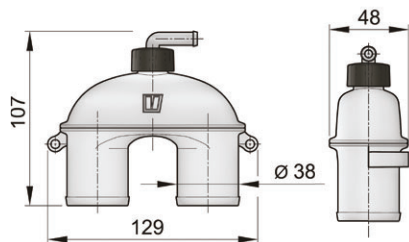


ASDH



AIRVENTS

Type ASD



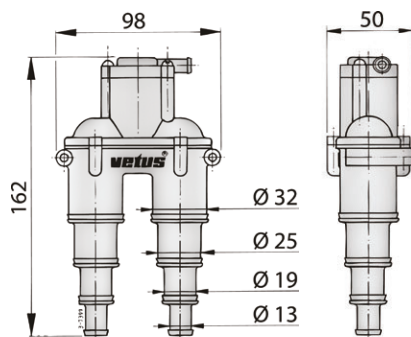
ASD38V



ASD38H

Type		Ø Hose (mm)
ASD38V	Anti Syphon Device with Valve	38
ASD38H	Anti Syphon Device with Hose	38

Type AIRVENT



AIRVENTV



AIRVENTH

Type		Ø Hose (mm)
AIRVENTV	Air vent with Valve	13 / 19 / 25 / 32
AIRVENTH	Air vent with Hose	13 / 19 / 25 / 32

For both model ASD and AIRVENT a mounting bracket is available to facilitate installation onto surfaces clad with sound insulation (see page 60). This mounting bracket is supplied with bolts, washers and self-locking nuts to mount the airvent.



GAS / WATER SEPARATOR

For marine engines and generator sets

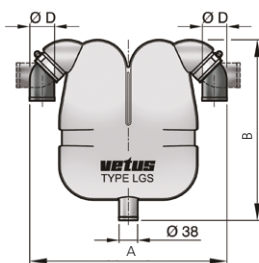
The VETUS gas / water separator has a double function. It separates the injected raw cooling water from the exhaust gases and also functions as a gooseneck. Particularly important for generator sets, the separator reduces the exhaust noise and drains the cooling water below the waterline, thus preventing the characteristic splashing sound.

Type LGS 40/45/50/60/75/90

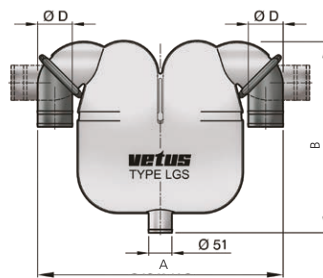
Specifications

- 360° Rotating hose connections for 40, 45 or 50, 60, 75 or 90 mm internal hose diameters
- Cooling water drain of 38 mm or 50 mm
- Comes with stainless steel (AISI 316) mounting bracket with synthetic straps

Type	A (mm)	B (mm)	Ø D (mm)	Capacity (litre)
LGS4038	406 x 134	370	40	7
LGS4538	406 x 134	370	45	7
LGS5038	406 x 134	370	50	7
LGS6050	540 x 170	420	60	12
LGS7550	540 x 170	420	75	12
LGS9075	559 x 170	537	90	20



Type LGS40 - 45 - 50



Type LGS60 - 75 - 90

LGS



EXHAUST TEMPERATURE ALARM

Safety first. Always place an alarm in the exhaust line!

A blockage in the engine water intake or a damaged pump impeller will result in a complete loss, or severe reduction in the volume of cooling water in the exhaust system. In this case the temperature in the exhaust will rise much faster than the temperature of the engine. VETUS always recommends placing an exhaust temperature alarm that provides a visual and audible alarm when the temperature inside the exhaust hose or the muffler exceeds an acceptable level.

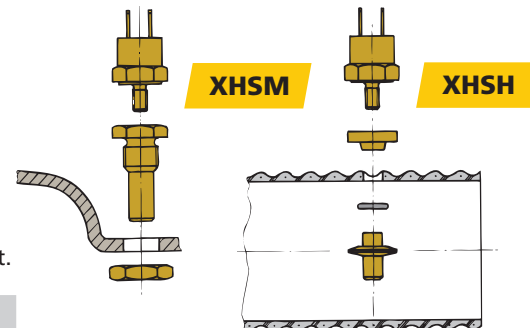
Specifications

- Alarm cut-out dimension Ø 52 mm, overall diameter 62 mm
- Build-in depth 40 mm
- Suitable for 12 or 24 Volt D.C.
- Use sensor XHSM in VETUS waterlocks that have a pre-installed connection
- Use sensor type XHSH for fitting in the exhaust hose

Note

The temperature sensors and the alarm unit must be ordered separately.
In case of a twin engine installation, 2 sensors can be connected to 1 alarm unit.

Type		Colour
XHI12B	Dashboard instrument for exhaust temperature alarm 12 V	Black
XHI24B	Dashboard instrument for exhaust temperature alarm 24 V	Black
XHI12W	Dashboard instrument for exhaust temperature alarm 12 V	Cream
XHI24W	Dashboard instrument for exhaust temperature alarm 24 V	Cream
XHSM	Sensor for exhaust temperature alarm to fit MF/MV/LSG/LSS/MGS/MGL/MGP/HPW	
XHSH	Sensor for exhaust temperature alarm to fit exhaust hose	



XHI

TRANSOM EXHAUST CONNECTIONS

Easy mounting to transom

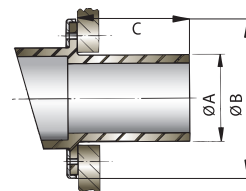
Type TRCR

The flexible EPDM rubber connector is mounted to the outside of the transom with a 2 mm thick stainless steel (AISI 316) mounting ring. VETUS mufflers and goosenecks with corresponding dimensions fit directly into the rubber sleeve. For connection of the exhaust hose, a plastic connector type SLVBR or SLVBG is required (see page 100).



TRCR

Type	For exhaust hose (I.D.) (mm)	A = hole size Ø (mm)	Ø B (mm)	C (mm)
TRC40R	40	53	86	86
TRC45R	45	58	114	86
TRC50R	50	63	114	86
TRC60R	60	73	114	86
TRC7590R	75 and 90	111	164	90



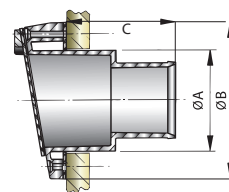
Type TRCPV / TRCSV

Type TRCPV has a synthetic body, Type TRCSV is made from stainless steel (AISI 316). Both types have an integral check valve. The exhaust hose can be fitted directly to these transom connectors.



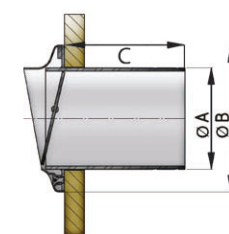
TRCPV

Type	For exhaust hose (I.D.) (mm)	A = hole size Ø (mm)	Ø B (mm)	C (mm)
TRC40PV	40	52	88	75
TRC45PV	45	52	88	75
TRC50PV	50	68	104	75
TRC60PV	60	68	104	75
TRC75PV	75	97	140	95
TRC90PV	90	97	140	95



TRCSV

Type	For exhaust hose (I.D.) (mm)	A = hole size Ø (mm)	Ø B (mm)	C (mm)
TRC40SV	40	41	74	75
TRC45SV	45	46	79	75
TRC50SV	50	51	84	75
TRC60SV	60	61	94	75
TRC75SV	75	77	110	90
TRC90SV	90	91	123	110
TRC100SV	102	103	140	115
TRC125SV	127	128	169	140
TRC150SV	152	153	194	150



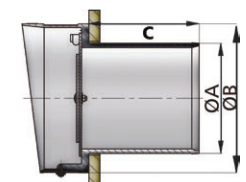
Type TC

Type TC is made from black glass reinforced synthetic with a decorative stainless steel (AISI 316) band. The exhaust hose can be fitted directly to this transom connector.



TC

Type	For exhaust hose (I.D.) (mm)	A = hole size Ø (mm)	Ø B (mm)	C (mm)
TC90	90	93	141	110
TC100	102	103	155	115
TC125	127	128	178	140
TC150	152	153	203	150



ACCESSORIES

Rubber exhaust hose type SLANG

Flexible and strong, saving valuable installation time

For a complete overview and available sizes see page 408.

SLANG



Silicone hose type SIHOSE

Extremely high temperature resistance

For a complete overview and available sizes see page 408.

SIHOSE



Synthetic hose connections

These hose connectors are made of synthetic material and are available in a straight, 60° or 90° bend type.

Type SLVBR

This is a straight type and suitable for hoses with an internal diameter of Ø 40 to 150 mm.

SLVBR



Type	
SLVBR40K	Straight Ø 40 mm
SLVBR45K	Straight Ø 45 mm
SLVBR50K	Straight Ø 50 mm
SLVBR60K	Straight Ø 60 mm
SLVBR65K	Straight Ø 65 mm
SLVBR75K	Straight Ø 75 mm

Type	
SLVBR90K	Straight Ø 90 mm
SLVBR100K	Straight Ø 100 mm
SLVBR110K	Straight Ø 110 mm
SLVBR125K	Straight Ø 125 mm
SLVBR150K	Straight Ø 150 mm

Type SLVBG

This is a 60° bend type and suitable for hoses with an internal diameter of Ø 40 to 150 mm.

SLVBG



Type	
SLVBG40K	Bent 60° Ø 40 mm
SLVBG45K	Bent 60° Ø 45 mm
SLVBG50K	Bent 60° Ø 50 mm
SLVBG60K	Bent 60° Ø 60 mm
SLVBG65K	Bent 60° Ø 65 mm
SLVBG75K	Bent 60° Ø 75 mm

Type	
SLVBG90K	Bent 60° Ø 90 mm
SLVBG100K	Bent 60° Ø 100 mm
SLVBG110K	Bent 60° Ø 110 mm
SLVBG125K	Bent 60° Ø 125 mm
SLVBG150K	Bent 60° Ø 150 mm

Type ELB

This is a 90° bend type and suitable for hoses with an internal diameter of Ø 127, 152, 203 or 254 mm.

ELB



Type	
ELB90127	Bent 90° Ø 127 mm
ELB90152	Bent 90° Ø 152 mm

Type	
ELB90203	Bent 90° Ø 203 mm
ELB90254	Bent 90° Ø 254 mm

Flexible mountings for waterlocks

Minimise the noise

These flexible mountings can be used to minimise the noise caused by induced vibrations in the waterlock. Code is for a set of 4 mounts.

Type

MGVIB45	Anti vibration mounts for MGP waterlocks up to 35 kg
MGVIB55	Anti vibration mounts for MGS, MGL and HPW waterlocks up to 65 kg



MGVIB45

MGVIB55

Water mixer

In some boats the exhaust waterlock must be positioned so closely behind the engine's exhaust manifold (this is especially true in the case of near horizontal exhaust assemblies), that the injected cooling water does not always mix properly with the hot exhaust gases. This often results in the exhaust hose and/or the waterlock becoming overheated. Installation of a water mixer directly behind the exhaust manifold will prevent this problem.

The water mixer is available for exhaust hoses with inside diameter of 90, 100, 125 or 150 mm.

Type	For exhaust hoses Ø (mm)
MIXER090	90
MIXER100	100

Type	For exhaust hoses Ø (mm)
MIXER125	125
MIXER150	150

MIXER

