

Exhaust systems

Overview

Waterlock

Standard installations see page 116 - 117



WLOCKLP30



WLOCKLR



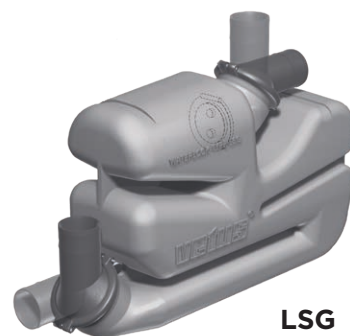
WLOCKL



LSSA



LSL



LSG

Waterlock

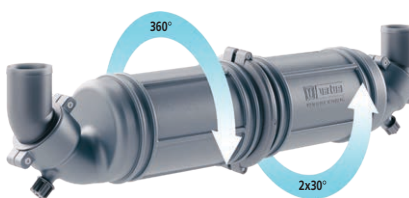
Dual stage see page 118



NLP

Waterlock

For installations with limited space such as sail boats see page 119



NLPH



NLP3

Waterlock

For larger boats see page 120



MG

Muffler

For high-performance craft see page 121



MV



MF

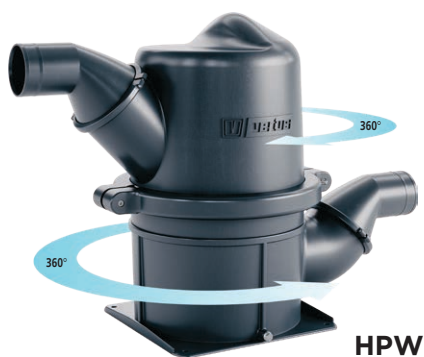


Waterlock

Heavy Duty Line see page 122 - 123



NLPHD



HPW

Muffler

see page 124



DEMPMP

Gooseneck

see page 125



NLPG



WLOCKLT



LT

Air vent

see page 126 - 127



ASD



ASD38



AIRVENT

Separator

see page 128



LGS4038



LGS6050



LGS9075

Transom exhaust connection

see page 129



TRCR



TRCPV



TRCSV



TC

Exhaust systems

A wet exhaust system

VETUS exhaust systems are based on "wet" systems in which engine cooling water is injected into the exhaust line. This reduces the exhaust gas temperature to about 40 °C to 50 °C along with a reduction in diesel exhaust fumes. The "wet" exhaust system is much preferred over a "dry" exhaust system in which the exhaust gas temperatures can reach 600 °C or more.

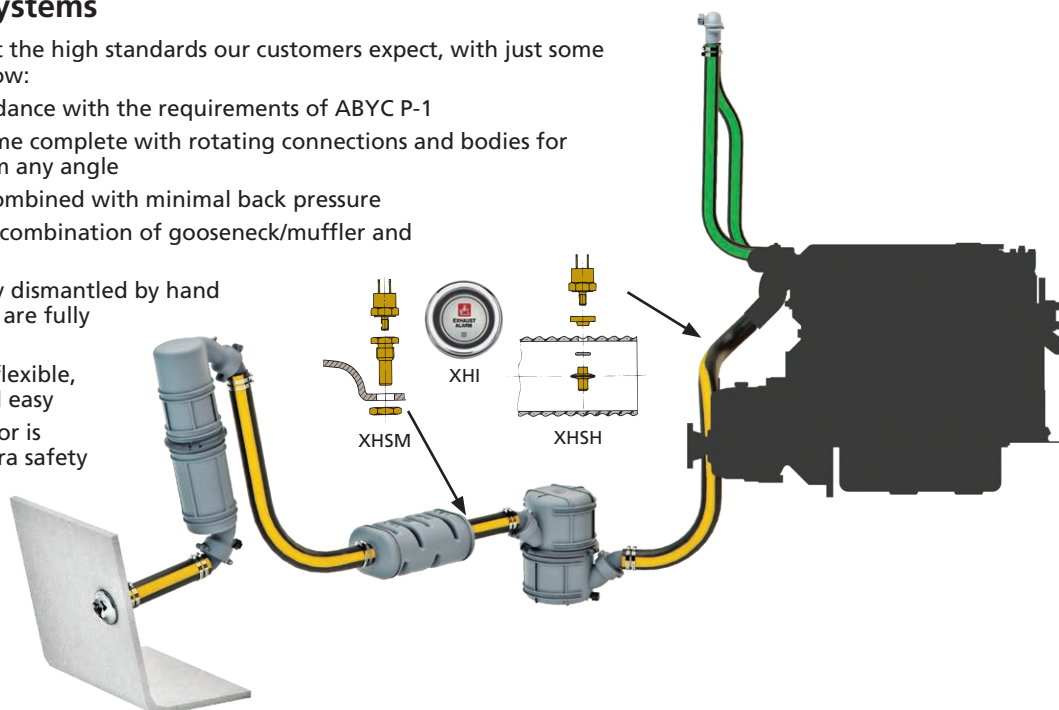
Depending on the overall system design, the exhaust gas may flow through one or more of:

- 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:

- Designed and tested in accordance with the requirements of ABYC P-1
- 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 air vent 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
- An exhaust temperature sensor is available as an option for extra safety



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. For the outperforming characteristics of the composite NAVIDURIN®, VETUS received LLOYDS approval.



- NLPHD Series

The NLPHD series is perfect for medium to large size sail or power boats, with exhaust diameters from Ø 40 to 90 mm.

Unique features

- Fits Ø 40, 45, 50, 60, 65, 75 and 90 mm exhausts
- Excellent sound attenuation with minimal back pressure
- Rotating body and hose connections for easy installation



- HPW Series

The HPW series was designed for heavy duty applications such as commercial and military vessels. The ability to handle extreme conditions combined with the rotating bodies and hose connections makes the HPW series a cost effective solution for your vessel compared to higher priced custom solutions.

Unique features

- High capacity water lift 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





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 backflow into the engine through the exhaust valves. This can be prevented by using a breather hose (1) in the cooling water system or an air vent (2).

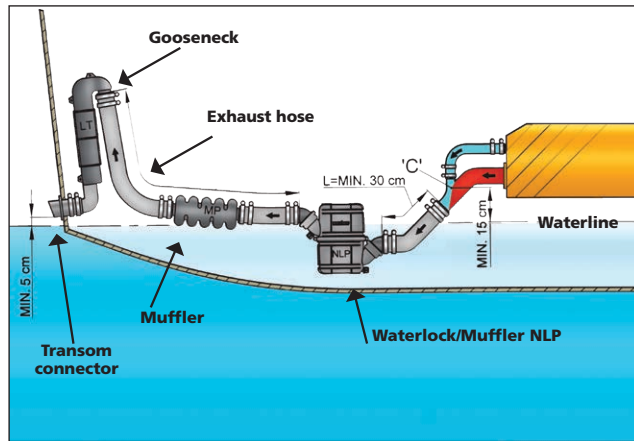
Calculation tool

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

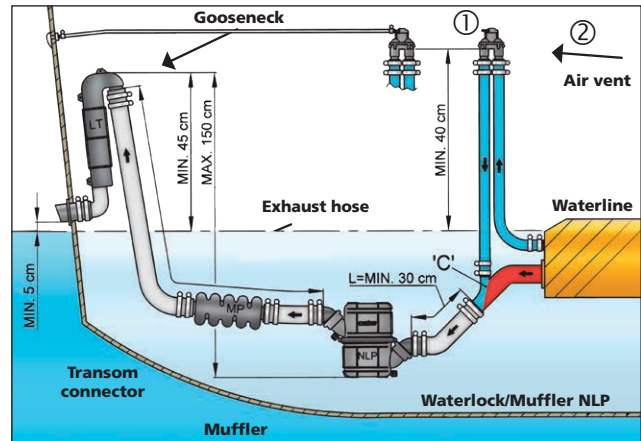
$$2 \times \left(\frac{\pi}{4} \times D^2 \times L \right) \times 0,25 / 1000.000$$

D = Internal diameter of the hose (mm)
L = Length of hose (mm)

Safety margin Volume 25% Water in hose Conversion to litre



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 the table below you can choose a waterlock which is suitable for your engine power and exhaust diameter. The permitted back pressure can be found in the engine specifications.

Exhaust in/out Ø mm	30/30	40/40	45/45	50/50	60/60	65/65	75/75	90/90	102/102	102/127	127/127	127/152	152/152	152/203	203/203	203/254
hp (kW) @ 0.1 bar *	13 (9)	22 (16)	28 (21)	34 (25)	49 (36)	57 (42)	77 (56)	110 (81)	141 (104)	178 (131)	219 (161)	264 (194)	313 (230)	427 (313)	558 (409)	707 (519)
hp (kW) @ 0.2 bar *	26 (18)	44 (32)	56 (42)	68 (50)	98 (72)	114 (84)	154 (112)	220 (162)	282 (208)	356 (262)	438 (322)	528 (388)	626 (460)	854 (626)	1116 (818)	1414 (1038)
hp (kW) @ 0.3 bar *	39 (27)	66 (48)	84 (63)	102 (75)	147 (108)	172 (126)	231 (168)	330 (243)	423 (312)	534 (393)	657 (483)	792 (582)	939 (690)	1281 (939)	1674 (1227)	2121 (1557)
WLOCKLP30																
WLOCKLR																
WLOCK50S																
WLOCKLP																
LSSA																
LSL																
LSG																
NLP																
NLPHD																
NLPH																
NLP3																
MG																
MV																
MF																
HPW																

This table is for general recommendation only. 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.

* maximum allowable back pressure

Exhaust systems

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 backflow into the engine. All VETUS waterlocks are provided with a drain plug for winter storage.

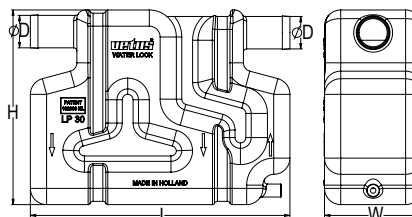
Type WLOCKLP

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



WLOCKLP30

Type	Capacity (L)	Hose I.D.		L (mm)	W (mm)	H (mm)
		Ø D (mm)				
WLOCKLP30	2,3	30		180	90	180



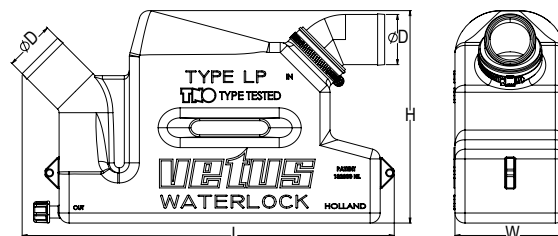
Type WLOCKLR

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



WLOCKLR

Type	Capacity (L)	Hose I.D.		L (mm)	W (mm)	H (mm)
		Ø D (mm)				
WLOCKL40R	4,3	40		372	110	212
WLOCKL45R	4,3	45		372	110	212
WLOCKL50R	4,3	50		372	110	212



Type WLOCKLS and WLOCKLP

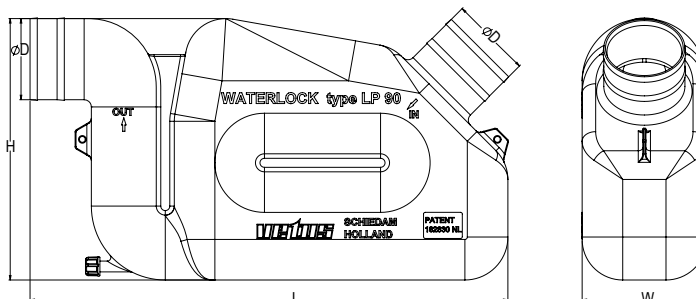
- Suitable for exhaust hose with internal diameter of Ø 50, 60, 75 or 90 mm



WLOCKL50S

WLOCKLP

Type	Capacity (L)	Hose I.D.		L (mm)	W (mm)	H (mm)
		Ø D (mm)				
WLOCKL50S	10,5	50		530	138	290
WLOCKLP60	10,5	60		530	138	290
WLOCKLP75	10,5	75		530	138	290
WLOCKLP90	10,5	90		530	138	290





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

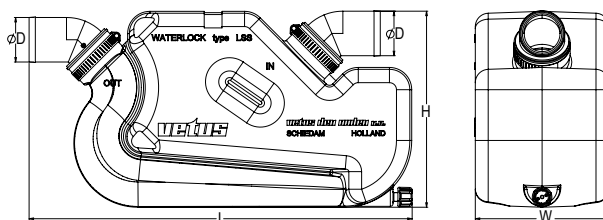
For standard hose connections

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



LSSA

Type	Capacity (L)	Hose I.D.		L (mm)	W (mm)	H (mm)
		Ø D (mm)				
LSS40A	5,7	40		430	152	225
LSS45A	5,7	45		430	152	225
LSS50A	5,7	50		430	152	225



Type LSL

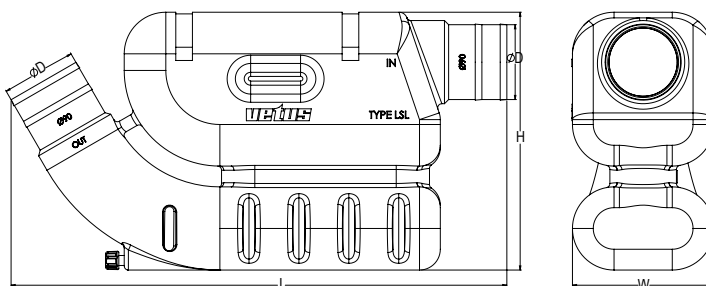
For long relatively straight exhaust runs

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



LSL

Type	Capacity (L)	Hose I.D.		L (mm)	W (mm)	H (mm)
		Ø D (mm)				
LSL60	16	60		596	170	310
LSL75	16	75		596	170	310
LSL90	16	90		596	170	310

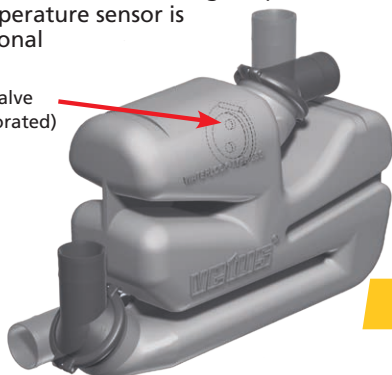


Type LSG

With incorporated check valve for extra security

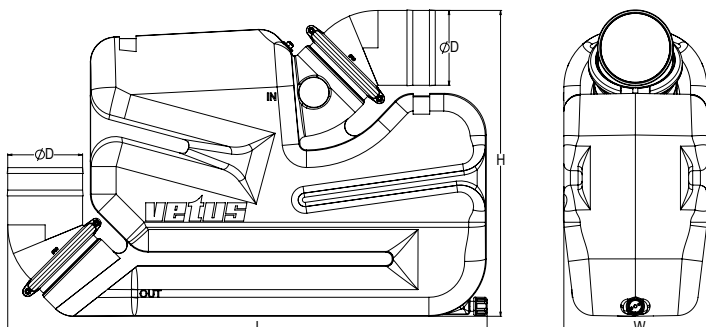
- Suitable for exhaust hose with internal diameter of Ø 60, 75 or 90 mm
- 360° Rotating inlet and outlet connections
- Exchangeable 65 mm hose connection (SET00025) can be ordered separately
- Comes with two securing straps
- Temperature sensor is optional

Check valve (incorporated)



LSG

Type	Capacity (L)	Hose I.D.		L (mm)	W (mm)	H (mm)
		Ø D (mm)				
LSG60	17	60		578	170	368
LSG75	17	75		578	170	368
LSG90	17	90		578	170	368



Exhaust systems

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.

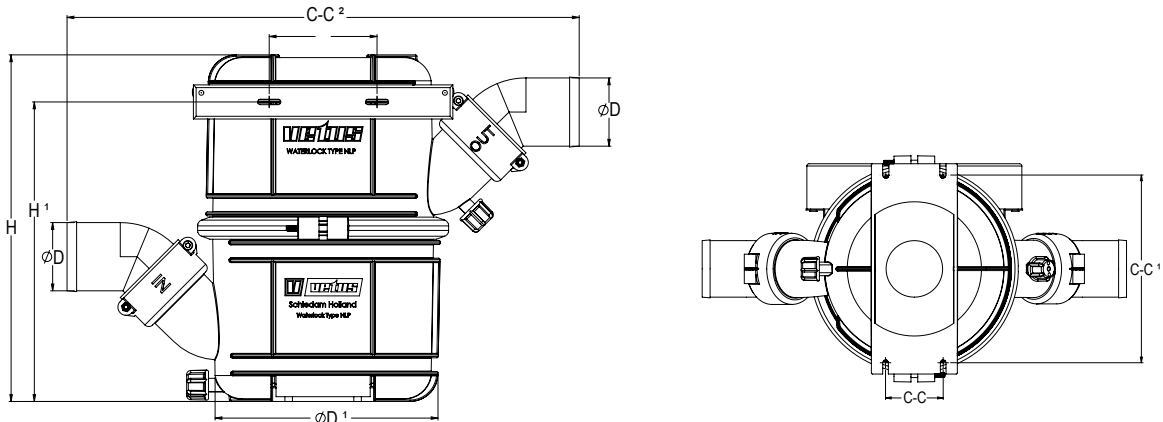
Including mounting brackets for bulkhead and floor mounts.



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 L
- Type NLP60/65/75/90/50S is suitable for exhaust hose with inside diameter of Ø 50, 60, 65, 75 or 90 mm and has a capacity of 10 L

Type	Capacity (L)	Hose I.D.		L (mm)	H (mm)	H' (mm)	Ø C-C (mm)	Ø C-C' (mm)	Ø C-C² (mm)
		Ø D (mm)	Ø D¹ (mm)						
NLP40	4,5	40	165	385	254	220	50,5	186	79
NLP45	4,5	45	165	385	254	220	50,5	186	79
NLP50	4,5	50	165	385	254	220	50,5	186	79
NLP50S	10	50	210	515	362	320	75,5	240	79
NLP60	10	60	210	515	362	320	75,5	240	79
NLP65	10	65	210	515	362	320	75,5	240	79
NLP75	10	75	210	515	362	320	75,5	240	79
NLP90	10	90	210	515	362	320	75,5	240	79



Dimensions: plus or minus 2%



Waterlock/Muffler

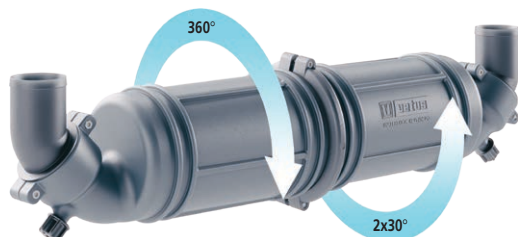
Designed for horizontal installation

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

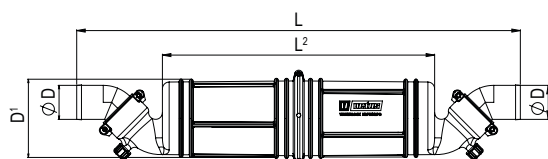
Type NLPH

Suitable for a wide range of applications

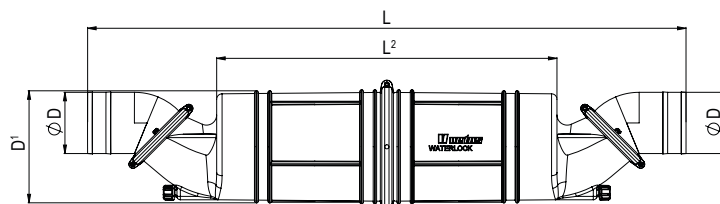
- Suitable for Ø 40, 45, 50, 60, 75 or 90 mm internal hose diameters
- Comes with two securing straps
- Exchangeable 65 mm hose connection (SET00025) can be ordered separately*



NLPH



Type 40, 45, 50



Type 60, 75, 90

Type	Capacity (L)	Hose I.D. Ø D (mm)	Ø D¹ (mm)	L (mm)	L² (mm)
NLPH40	3	40	110	652	400
NLPH45	3	45	110	652	400
NLPH50	3	50	110	652	400
NLPH60*	10	60	155	879	500
NLPH75*	10	75	155	879	500
NLPH90*	10	90	155	879	500

Type NLP3

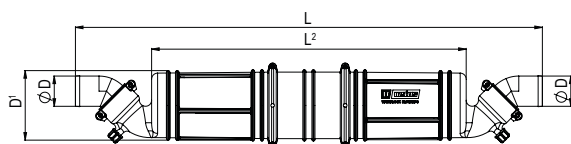
The quietest waterlock in the world!

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.

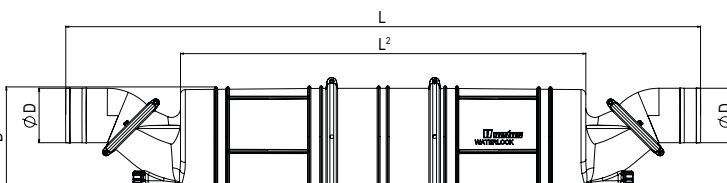
- Suitable for Ø 40, 45, 50, 60, 75 or 90 mm internal hose diameters
- Comes with two securing straps
- Exchangeable 65 mm hose connection (SET00025) can be ordered separately*



NLP3



Type 40, 45, 50



Type 60, 75, 90

Type	Capacity (L)	Hose I.D. Ø D (mm)	Ø D¹ (mm)	L (mm)	L² (mm)
NLP340	5	40	110	772	520
NLP345	5	45	110	772	520
NLP350	5	50	110	772	520
NLP360*	10	60	155	1050	670
NLP375*	10	75	155	1050	670
NLP390*	10	90	155	1050	670
NLP36015L*	15	60	155	1200	825
NLP37515L*	15	75	155	1200	825
NLP39015L*	15	90	155	1200	825

Exhaust systems

Waterlocks specifically for larger boats

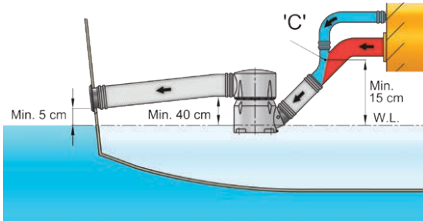
Excellent sound reduction, minimal back pressure

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 L
- Drain thread size M12
- Temperature sensor is optional



MGP

Type	Capacity (L)	Hose I.D.		Ø D ² (mm)	H (mm)	C-C (mm)	C-C' (mm)
		Ø D (mm)	Ø D' (mm)				
MGP9090	23	90	90	270	450	213,5	213,5
MGP102102	23	102	102	270	450	213,5	213,5
MGP5455	23	127	127	270	450	213,5	213,5
MGP102127	23	102	127	270	450	213,5	213,5



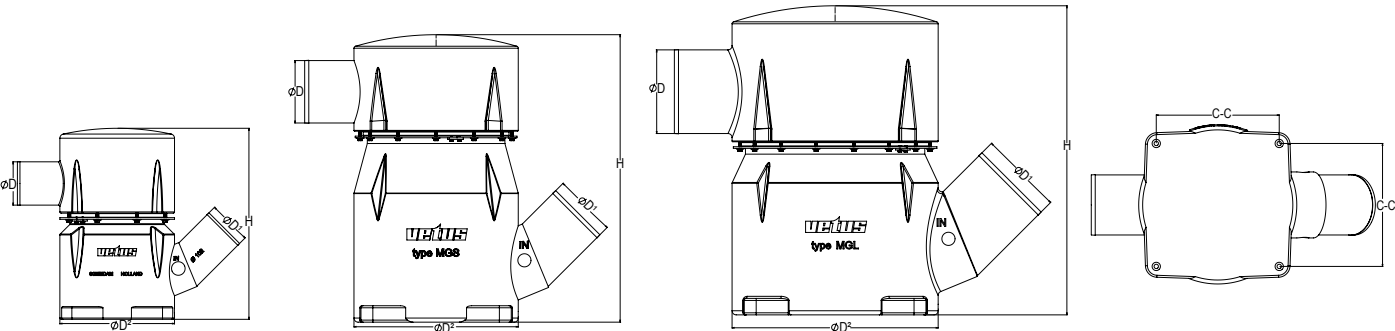
MGS

Type	Capacity (L)	Hose I.D.		Ø D ² (mm)	H (mm)	C-C (mm)	C-C' (mm)
		Ø D (mm)	Ø D' (mm)				
MGS5455A	75	127	127	400	700	213,5	213,5
MGS5456A	75	127	152	400	700	213,5	213,5
MGS6456A	75	152	152	400	700	213,5	213,5



MGL

Type	Capacity (L)	Hose I.D.		Ø D ² (mm)	H (mm)	C-C (mm)	C-C' (mm)
		Ø D (mm)	Ø D' (mm)				
MGL6458A	130	152	203	500	750	382	382
MGL8458A	130	203	203	500	750	382	382
MGL84510A	130	203	250	500	750	382	382



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

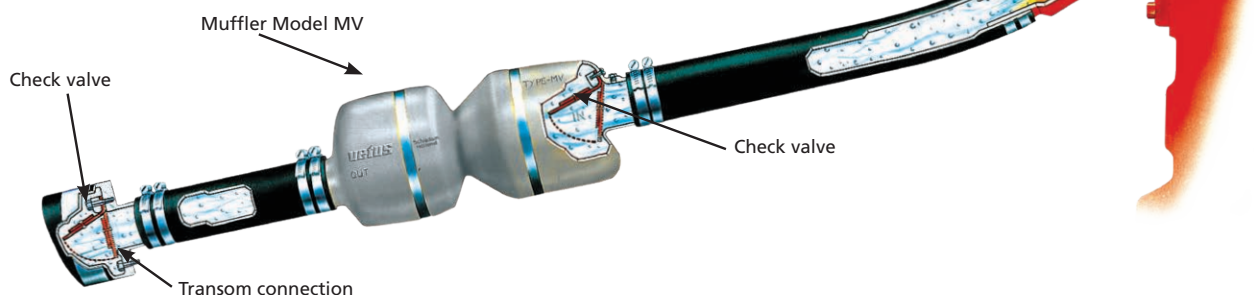
To optimise the sound reduction, flexible mounts for the waterlocks MG and HPW can be used. Please see page 131 for more information.





Exhaust systems for high-performance crafts

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 create 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 synthetic. Muffler type MV and the transom connection are provided with a check valve which prevents the seawater from flowing into the engine.

Type MV

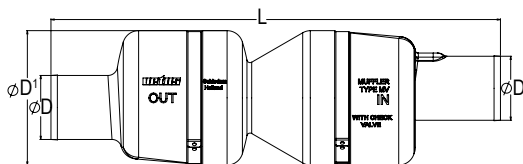
Specifications

- For hose diameters Ø 90, 100, 125 and 150 mm
- Comes with stainless steel (AISI 316) mounting brackets
- The optional temperature sensor XHSM is recommended, see page 132

Connection point for temperature sensor



MV



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

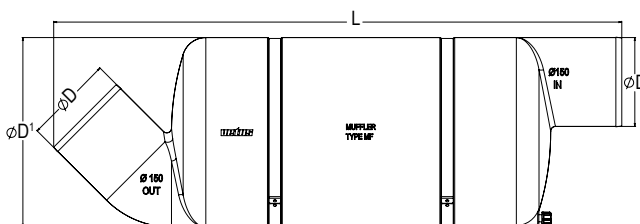
Type MF

Specifications

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



MF



Type	Capacity (L)	Hose I.D.		L (mm)
		Ø D (mm)	Ø D' (mm)	
MF090	13	90	210	728
MF100	13	100	210	735
MF125	43,5	125	320	940
MF150	43,5	150	320	959

Note: Both types should be installed exclusively in combination with an approved reinforced rubber exhaust hose (see pages 130 and 131).

Exhaust systems

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. For the outperforming characteristics of the composite NAVIDURIN®, VETUS received LLOYDs approval. We offer two types of HD waterlocks; the NLPHD (4,5 - 10 L) and the HPW (55 L).

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! A more cost effective and technically superior exhaust component, even compared with GRP or stainless steel waterlocks. 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.



NLPHD



HPW

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)	250 °C	120 °C	140 °C
Tensile strength	190 MPa	100 MPa	114 MPa
Flexural strength	300 MPa	140 MPa	167 MPa



Waterlocks specifically for commercial boats (Heavy Duty Line)

NLPHD

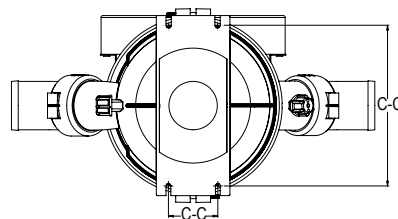
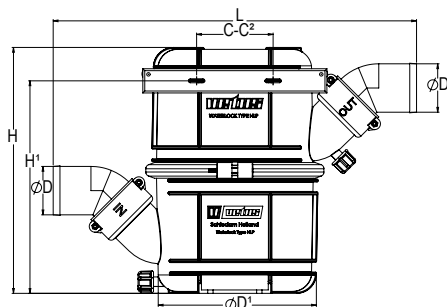
Specifications

- Suitable for Ø 40, 45, 50, 60, 65, 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 mounting brackets for bulkhead and floor mounts



NLPHD

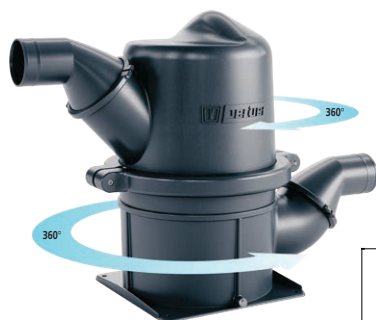
Type	Capacity (L)	Hose I.D.		L (mm)	H (mm)	H¹ (mm)	Ø C-C (mm)	Ø C-C¹ (mm)	Ø C-C² (mm)
		Ø D (mm)	Ø D¹ (mm)						
NLP40HD	4,5	40	165	385	254	220	50,5	186	79
NLP45HD	4,5	45	165	385	254	220	50,5	186	79
NLP50HD	4,5	50	165	385	254	220	50,5	186	79
NLP50SHD	10	50	210	515	362	320	75,5	240	79
NLP60HD	10	60	210	515	362	320	75,5	240	79
NLP65HD	10	65	210	515	362	320	75,5	240	79
NLP75HD	10	75	210	515	362	320	75,5	240	79
NLP90HD	10	90	210	515	362	320	75,5	240	79



HPW

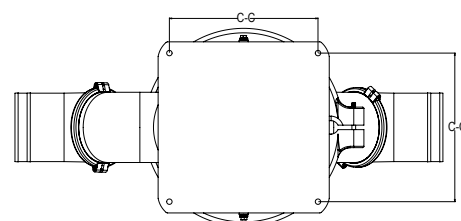
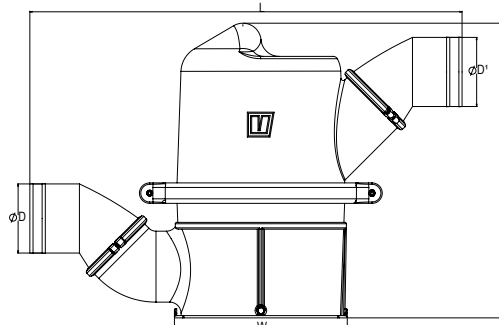
Specifications

- 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
- With integrated mounting plate
- HPW is equipped with 2 drains of G 1/4 internal thread to simplify access with twin engine installation
- Temperature sensor is optional



HPW

Type	Capacity (L)	Hose I.D.		L (mm)	W (mm)	H (mm)	Ø C-C (mm)	Ø C-C¹ (mm)
		Ø D (mm)	Ø D¹ (mm)					
HPW102	55	102	102	950	380	648	330	330
HPW127	55	127	127	950	380	648	330	330
HPW152	55	152	152	950	380	648	330	330
HPW127152	55	127	152	950	380	648	330	330



Exhaust systems

Muffler

Type DEMPMP

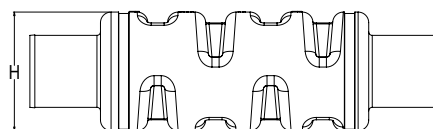
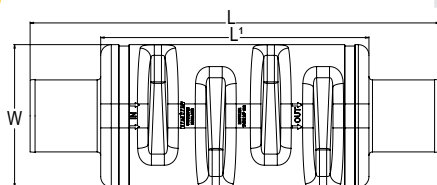
Better noise reduction

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



DEMPMP



Type	Hose I.D. Ø D (mm)	L (mm)	L' (mm)	W (mm)	H (mm)
DEMPMP40	40	368	240	158	108
DEMPMP45	45	368	240	158	108
DEMPMP50	50	368	240	158	108
DEMPMP60	60	368	240	158	108
DEMPMP75	75	456	320	180	130
DEMPMP90	90	456	320	180	130
DEMPMP100	102	580	380	202	168

Muffler and gooseneck

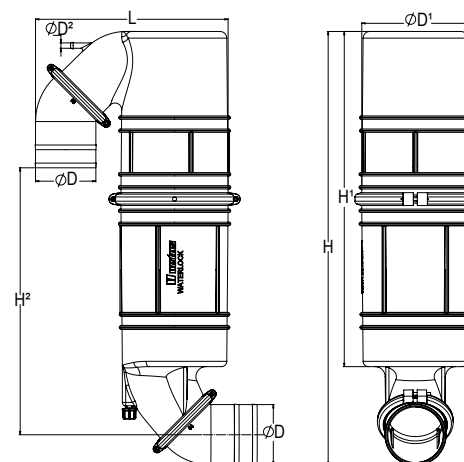
Type NLPG

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 barb to connect the air vent
- Comes with two securing straps
- Exchangeable 65 mm hose connection (SET00025) can be ordered separately*



Type	Capacity (L)	Hose I.D. Ø D (mm)	Ø D' (mm)	Vent Ø D'' (mm)	L (mm)	H (mm)	H' (mm)	H'' (mm)
NLPG40	3	40	110	8	205	494	385	400
NLPG45	3	45	110	8	205	494	385	400
NLPG50	3	50	110	8	205	494	385	400
NLPG60*	10	60	160	8	285,3	646,4	405	500
NLPG75*	10	75	160	8	285,3	646,4	405	500
NLPG90*	10	90	160	8	285,3	646,4	405	500

NLPG



Gooseneck

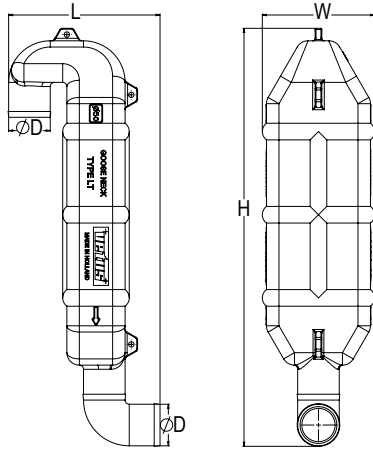
The gooseneck raises the exhaust line above the waterline and provides additional noise reduction. The outlet fits directly to all VETUS rubber transom connectors.

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.



WLOCKLT



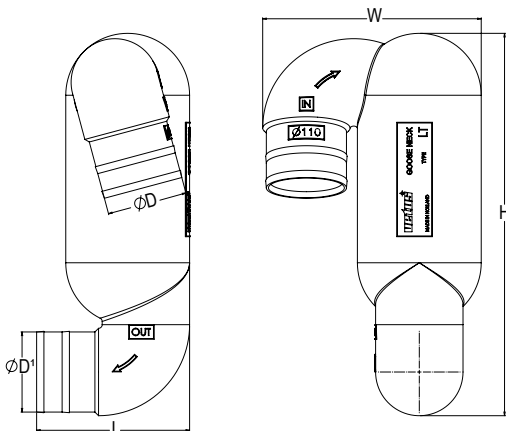
Type	Hose I.D. Ø D (mm)	L (mm)	W (mm)	H (mm)
WLOCKLT40	40	182	135	502
WLOCKLT45	45	182	135	502
WLOCKLT50	50	182	135	502
WLOCKLT60	60	182	135	502

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.



LT



Type	Hose I.D. Ø D (mm)	Hose I.D. Ø D¹ (mm)	L (mm)	W (mm)	H (mm)
LT6575	65	75	155	235	500
LT7575	75	75	155	235	500
LT9090	90	90	210	300	525
LT90110	90	110	210	300	525
LT102	102	102	210	300	525
LT110110	110	110	210	300	525
LT127	127	127	275	380	565
LT152	152	152	275	380	565

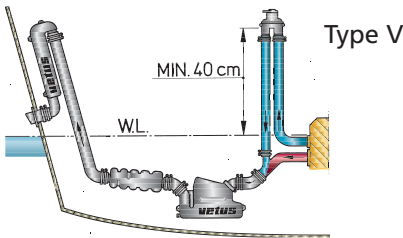
Exhaust systems

Air vents

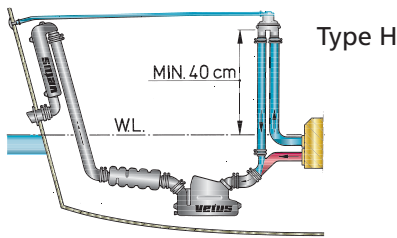
Anti-siphoning

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 air vent.

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 fixed holes centres. It has a silicone anti-siphon pressure valve and is low-maintenance.

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 can 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	Description	Hose I.D. Ø (mm)	VENT Ø D (mm)	L (mm)	W (mm)	H (mm)	H' (mm)	C-C (mm)
ASDV	Anti syphon device with valve	13 / 19 / 25 / 32	-	68	96	133	40	87
ASDH	Anti syphon device with hose	13 / 19 / 25 / 32	8	68	96	133	40	87
ASDVS	Spare set: ASDV valves							
MBSET02	Mounting bracket set for ASDV, ASDVH, AIRVENTV, AIRVENTH							



Air vents

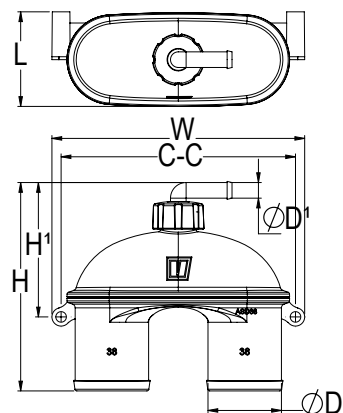
Type ASD



ASD38V



ASD38H



Type	Description	Hose I.D. Ø D (mm)	VENT Ø D' (mm)	L (mm)	W (mm)	H (mm)	H' (mm)	C-C (mm)
ASD38V	Anti syphon device with valve	38	-	48	129	107	69	120
ASD38H	Anti syphon device with hose	38	8	48	129	107	69	120
ASDVS	Spare set: ASDV valves							
MBSET01	Mounting bracket set M5 x 35 for ASD38V, ASD38H							

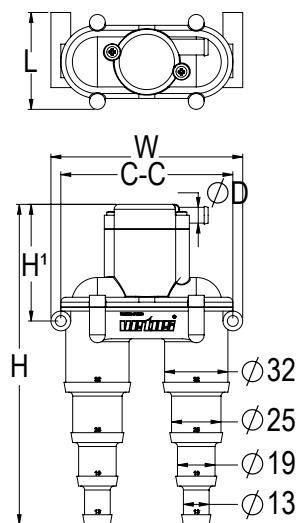
Type AIRVENT



AIRVENTV



AIRVENTH



Type	Description	Hose I.D. Ø (mm)	VENT Ø D (mm)	L (mm)	W (mm)	H (mm)	H' (mm)	C-C (mm)
AIRVENTV	Anti syphon device with valve	13 / 19 / 25 / 32	-	50	98	162	59	87
AIRVENTH	Anti syphon device with hose	13 / 19 / 25 / 32	8	50	98	162	59	87
AV006	Replacement valve for AIRVENT							
MBSET02	Mounting bracket set for ASDV, ASDVH, AIRVENTV, AIRVENTH							

For both model ASD and AIRVENT a mounting bracket is available to facilitate installation onto surfaces clad with sound insulation (see page 58). This mounting bracket is supplied with bolts, washers and self-locking nuts to mount the air vent.

MBSET..



Exhaust systems

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

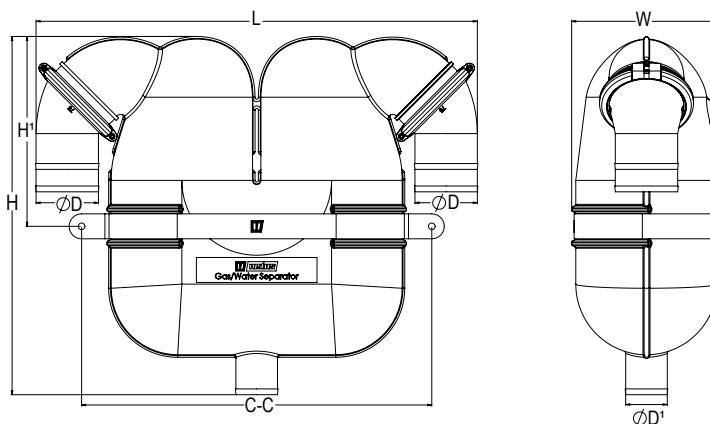
Specifications

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



LGS

Type	Max. water flow (L/min)	Hose I.D. Ø D (mm)	Drain Ø D' (mm)	L (mm)	W (mm)	H (mm)	H' (mm)	C-C (mm)
LGS4038	100	40	38	406	134	370	201	304
LGS4538	100	45	38	406	134	370	201	304
LGS5038	100	50	38	406	134	370	201	304
LGS6050	184	60	50	540	170	420	228	421
LGS7550	184	75	50	540	170	420	228	421
LGS9075	472	90	75	559	170	537	359	421





Transom exhaust connections

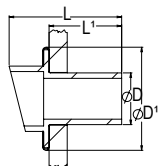
Easy mounting to transom

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 synthetic connector type SLVBR or SLVBG is required (see pages 132 - 133).



TRCR



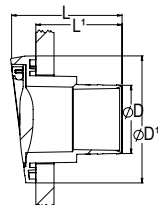
Type	For exhaust hose I.D. (mm)	Cutout Ø D (mm)	D ¹ (mm)	L (mm)	L ¹ (mm)
TRC40R	40	53	87	125	86
TRC45R	45	58	114	125	86
TRC50R	51	63	114	125	86
TRC60R	60	73	114	125	86
TRC7590R	76 and 90	111	164	130	90

Type TRCPV

Type TRCPV has a synthetic body and an integral check valve. The exhaust hose can be fitted directly to this transom connector.



TRCPV



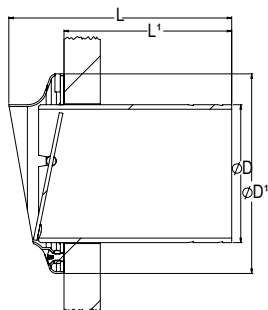
Type	For exhaust hose I.D. (mm)	Cutout Ø D (mm)	D ¹ (mm)	L (mm)	L ¹ (mm)
TRC40PV	40	52	88	105	75
TRC45PV	45	52	88	105	75
TRC50PV	51	68	108	105	75
TRC60PV	60	68	108	105	75
TRC75PV	76	97	140	123	95
TRC90PV	90	97	140	123	95

Type TRCSV

Type TRCSV is made from stainless steel (AISI 316) and has an integral check valve. The exhaust hose can be fitted directly to this transom connector.



TRCSV



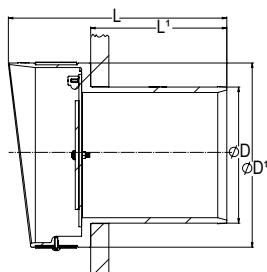
Type	For exhaust hose I.D. (mm)	Cutout Ø D (mm)	D ¹ (mm)	L (mm)	L ¹ (mm)
TRC40SV	40	41	74	99	75
TRC45SV	45	46	79	99	75
TRC50SV	51	51	84	99	75
TRC60SV	60	61	94	99	75
TRC75SV	76	77	110	123	93
TRC90SV	90	91	123	143	110
TRC100SV	102	103	140	152	117
TRC125SV	127	128	169	180	140
TRC150SV	152	153	194	197	153

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)	Cutout Ø D (mm)	D ¹ (mm)	L (mm)	L ¹ (mm)
TC090	90	93	141	173	110
TC100	102	103	155	178	115
TC125	127	128	178	231	140
TC150	152	153	203	241	150

Exhaust systems

Hoses

Silicone hose type SIHOSE

Extremely high temperature resistant

Type SIHOSE is made of high grade silicone rubber with woven synthetic and an encapsulated steel spiral with an external smooth gloss finish. This flexible hose is highly resistant to ageing and suitable for a wide range of applications (exhaust, cooling and waste water hose). Temperature range of -54 to 177 °C (intermittently up to 250 °C).

Type SIHOSE meets all the requirements of the ISO13363 type Class B and SAE J 2006 R1 standards.



SIHOSE

Type	Internal (Ø mm)	External (Ø mm)	Weight (kg/m)	Max. pressure (bar)	Bending radius (mm)	Roll length (m)	HCHDS clamp	HCS clamp
SIHOSE25	25	35	0,60	5.0	62	20	HCHDS034	HSC25
SIHOSE32	32	41	0,73	4.5	80	20	HCHDS040	HSC32
SIHOSE38	38	47	0,85	4.0	95	20	HCHDS047	HSC40
SIHOSE51	51	61	1,31	4.0	150	20	HCHDS059	HSC50
SIHOSE63	63	74	1,60	3.5	190	20	HCHDS073	HSC60
SIHOSE76	76	87	2,06	3.5	225	20	HCHDS085	HSC75
SIHOSE102	102	113	2,70	2.0	360	20	HCHDS112	HSC110

Rubber exhaust hose type SLANG

Flexible and strong, saving valuable installation time

VETUS exhaust hose type SLANG is the most flexible hose because of the increased spiral reinforcement and the extremely supple rubber. The completely smooth internal surface of the hose will reduce back pressure in the engine. Exhaust hoses with an internal diameter up to Ø 152 mm have a bending radius of 1,5 x the diameter. Exhaust hoses with an internal diameter of more than Ø 152 mm have a bending radius of twice the diameter.

Specifications

Certification: Lloyds Approved, SAE J2006 R2
 Temperature: Continuous operating temperature range: -30 °C to +100 °C; capable of withstanding brief exposures up to +115 °C.
 Construction: EPDM rubber tube, high tensile synthetic textile and steel helix reinforcement, EPDM rubber cover.
 Smooth Interior: A flush bore design minimizes back pressure, enhancing flow efficiency and system performance.
 Application: Designed for the delivery of wet exhaust gases and seawater in marine engine cooling systems.



SLANG

Type	Internal (Ø mm)	External (Ø mm)	Weight (kg/m)	Max. pressure (bar)	Burst pressure min. (bar)	Bending radius (mm)	Roll length (m)	HCHDS clamp	HCS clamp
SLANG30	30	40	0,7	4	12	45	20	HCHDS037	HCS32
SLANG40	40	50	0,9	4	12	60	20	HCHDS047	HCS40
SLANG45	45	55	1,0	4	12	68	20	HCHDS051	HCS40
SLANG50	51	61	1,1	4	12	77	20	HCHDS059	HCS50
SLANG57	57	67	1,3	3,3	10	86	20	HCHDS063	HCS50
SLANG60	60	70	1,3	3,3	10	90	20	HCHDS063	HCS60
SLANG65	65	75	1,4	3,3	10	98	20	HCHDS068	HCS60
SLANG75	76	87	1,8	3,3	10	114	20	HCHDS079	HCS75
SLANG90	90	101	2,1	2	6	135	20	HCHDS097	HCS90
SLANG100	102	112	2,5	2	6	153	20	HCHDS104	HCS110
SLANG110	110	122	2,8	2	6	165	20	HCHDS112	HCS110
SLANG125	127	139	3,4	2	6	191	20	HCHDS130	HCS130
SLANG150	152	165	4,2	2	6	228	20	HCHDS162	HCS150
SLANG200	203	218	6,5	2	6	305	12	HCHDS213	
SLANG250	254	272	8,3	2	6	381	12	HCHDS260	
SLANG300	303	325	10,8	2	6	455	12	HCHDS300	

For a complete overview of our range of hoses see page 466. HCHDS (heavy duty) and HCS clamps are made of stainless steel. For a complete overview of our range of hose clamps see page 440.



Hoses

Rubber exhaust hose type SLANGR

RINA approved and Ultra-Flexible

Certified by RINA, The VETUS SLANGR exhaust hose builds on the trusted 'SLANG' design with enhanced spiral reinforcement and extremely supple rubber. In addition, the completely smooth interior reduces engine back pressure.

Specifications

Certification: RINA-approved, ISO 13363

Temperature: Continuous operating temperature range: -30 °C to +100 °C

Construction: NBR blend rubber tube, high tensile synthetic textile reinforcement with steel helix wire and an abrasion/ozone-resistant cover.

Smooth Interior: A flush bore design minimizes back pressure, enhancing flow efficiency and system performance.

Application: Suitable for the discharge of gases and fuels used in heating and cooling systems.



SLANGR

Type	Internal (Ø mm)	External (Ø mm)	Weight (kg/m)	Max. pressure (bar)	Burst pressure min. (bar)	Bending radius (mm)	Roll length (m)	HCHDS clamp	HCS clamp
SLANG30R	30	38	0,6	2,5	10	45	20	HCHDS037	HCS32
SLANG40R	40	48	0,8	2,5	10	60	20	HCHDS047	HCS40
SLANG60R	60	68	1,2	2,5	10	90	20	HCHDS063	HCS60
SLANG65R	65	73	1,3	2,5	10	98	20	HCHDS068	HCS60
SLANG75R	76	84	1,7	2,5	10	114	20	HCHDS079	HCS75
SLANG90R	90	99	2,0	2,5	10	180	20	HCHDS097	HCS90
SLANG150R	152	164	5,9	2,5	10	610	20	HCHDS162	HCS150

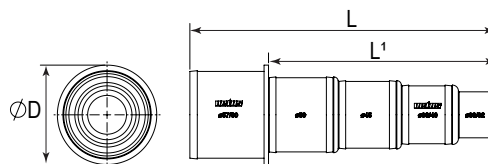
Synthetic hose adapters type HA

These synthetic hose adapter can be cut to the appropriate hose sizes.

Reducing the diameter of the exhaust system will result in a higher back pressure!



HA3060



Type	Hose I.D. Ø (mm)	Ø D (mm)	L (mm)	L' (mm)
HA3060	30 / 40 / 45 / 51 / 60	67	207	154

Flexible mounts for waterlocks

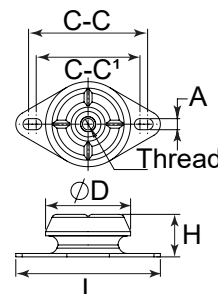
Minimise the noise

These flexible mounts can be used to minimise the noise caused by induced vibrations in the waterlock. Sold by the piece.



MGVB45

MGVB55



Type	Description	L (mm)	Ø D (mm)	H (mm)	C-C (mm)	C-C' (mm)	A (mm)	Thread
MGVB45	Anti vibration mount for MGP waterlocks up to 35 kg	85	50	32	70	61	6,5	M8
MGVB55	Anti vibration mount for MGS, MGL and HPW waterlocks up to 65 kg	85	50	32	70	61	6,5	M8

Exhaust systems

Accessories

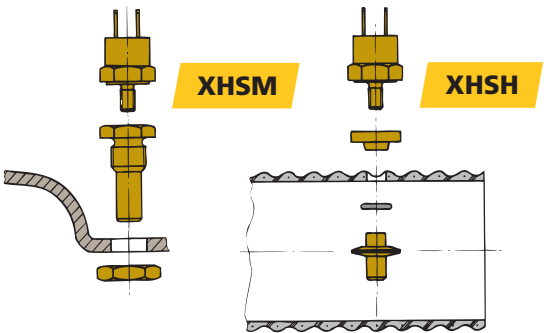
Exhaust temperature alarm

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 VDC
- 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, two sensors can be connected to one alarm unit.



XHI

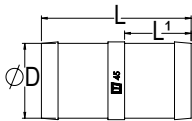
Type	Description	Colour
XHI12B	Dashboard instrument for exhaust temperature alarm 12 VDC	Black
XHI24B	Dashboard instrument for exhaust temperature alarm 24 VDC	Black
XHSM	Sensor for exhaust temperature alarm to fit MV/LSG/MGS/MGL/MGP	
XHSH	Sensor for exhaust temperature alarm to fit exhaust hose	

Synthetic hose connectors

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	Description	Ø D (mm)	L (mm)	L' (mm)
SLVBR40K	Straight	40	90	40
SLVBR45K	Straight	45	90	40
SLVBR50K	Straight	50	90	40
SLVBR60K	Straight	60	112	48
SLVBR65K	Straight	65	131	58
SLVBR75K	Straight	75	150	68
SLVBR90K	Straight	90	185	85
SLVBR100K	Straight	100	205	95
SLVBR110K	Straight	110	215	100
SLVBR125K	Straight	125	235	110
SLVBR150K	Straight	150	255	120



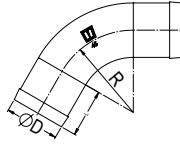
Accessories

Type SLVBG

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



SLVBG



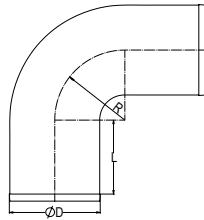
Type	Description	Ø D (mm)	L (mm)	R (mm)
SLVBG40K	Bent 60°	40	40	60
SLVBG45K	Bent 60°	45	40	68
SLVBG50K	Bent 60°	50	40	75
SLVBG60K	Bent 60°	60	45	90
SLVBG65K	Bent 60°	65	45	98
SLVBG75K	Bent 60°	75	45	112
SLVBG90K	Bent 60°	90	65	135
SLVBG100K	Bent 60°	100	75	150
SLVBG110K	Bent 60°	110	75	165
SLVBG125K	Bent 60°	125	80	188
SLVBG150K	Bent 60°	150	90	225

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	Description	Ø D (mm)	L (mm)	R (mm)
ELB90127	Bent 90°	127	115	99
ELB90152	Bent 90°	152	115	116
ELB90203	Bent 90°	203	135	146
ELB90254	Bent 90°	254	135	175

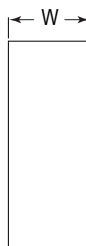
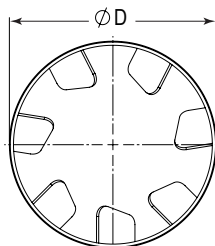
Water mixer

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 stainless steel (AISI 316) water mixer is available for exhaust hoses with inside diameter of 90, 100, 125 or 150 mm.



MIXER



Type	For exhaust hoses Ø D (mm)	W (mm)
MIXER090	90	40
MIXER100	100	40
MIXER125	127	40
MIXER150	152	40

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