



Marine

venAir

**FLEXIBLE SILICONE HOSES FOR
MARINE APPLICATIONS**

WWW.VENAIR.COM

MARINE WET EXHAUST SILICONE HOSES

ACCORDING TO ISO 13363 & SAE J2006 R1, R2, R3



Venair develops custom solutions for the nautical industry, especially for marine wet exhaust systems.

Vena sil 500 is the standard solution for marine applications and mainly present the following properties:

- SAE J2006 and ISO13363 approved.
- Not affected by anti-freeze or antirust liquids.
- Highly resistant to hardening with very good compression characteristics.
- Excellent flexibility during the assembly process.
- Excellent resistance to thermal aging and oxidizing agents (oxygen, ozone, UV).
- Operational temperature range from -55°C (-67 F) to +180°C (356 F), it may reach up to 200°C (392 F) during short periods of time.

CUSTOM SOLUTIONS FOR MAXIMUM EFFICIENCY



Choose the right solution for your marine engine.

With technical expertise and maintenance advice capabilities, Venair engineering solutions can help you provide the maximum reliability in your marine engines.

Our engineers are focus on energy efficiency and safety, providing a while range of custom solutions under customer demand.

SAE J2006- ISO 13363- Wet exhaust systems

Our product has the Type Approval Certificate (TAC) number 12/00066 issued by Lloyd's Register, which certify the compliance with the SAE J2006 for the three styles:

- **R1- (Softwall):** Straight silicone hose with textile reinforcements.
- **R2-(Hardwall):** traight hose made of silicone with textile reinforcements and encapsulated spring steel wire bronzed plated.
- **R3-** Elbows, reducers and convoluted hoses made of silicone with textile reinforcements.



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Certificate No: 12-00066(E1)-02
Issue Date: 27/05/2020
Expiry Date: 08/10/2022

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Venair Iberica S.A.U.
Address	C/Cerdanya, 26, 08226 Terrasa (Barcelona), Spain
Place of Production	Silicone Hoses Vietnam Co. Ltd. Unit A, Floor 2, Standard Factory, Road 14, Tan Thuan EPZ, Tan Thuan Dong, Ward - District, 7 Ho Chi Minh City - Vietnam
Type	Marine Wet Exhaust Hose
Description	Silicone hoses for marine wet exhaust systems: Style #1 (Soft Wall), #2 (Hard Wall) and #3 (Flexible Connectors) 6 to 508mm straight hose, elbow and convoluted hose
Trade Name	VENA SIL 500
Application	Used in marine wet exhaust systems where the exhaust gases are mixed with the discharge of cooling water
Specified Standard	Lloyd's Register's rules and Regulations for the Classification of Ships SAE J 2006 ISO 13363

Mohamed Mohamed Rifa
Senior Specialist to Lloyd's Register LMA
A member of the Lloyd's Register Group

77 Fenchurch Street, London, EC3M 4BS, United Kingdom

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TAB 1.0.0

Vena® Sil 500



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All Vena Sil 500 hoses are made from silicone and have several layers of polyester fibre to withstand the pressure to which they are subjected in this industry.

- Range of diameters: from 6mm (1/4") to 508mm (20")
- Operational temperature range from -55°C (-67 F) to +180°C (356 F), it may reach up to 200°C (392 F) during short periods of time. Wall thickness: according to diameter.
- Pressure resistance: according to ISO 13363 and SAE J2006.

Marine products

VENA® SIL 500 R1- Softwall

Straight silicone hose with textile reinforcements.



PROPERTIES	DESCRIPTION
Outer layer	Special VMQ Silicone
Reinforcement	Several fabrics
Inner layer	Special VMQ Silicone
Diameter	From 6mm (1/4") to 508 mm (20")
Lengths	Straight hoses: from 1000 to 4000 mm.

VENA® SIL 500 R2 - Hardwall

Straight hose made of silicone with textile reinforcements and encapsulated spring steel wire bronzed plated.



PROPERTIES	DESCRIPTION
Outer layer	Special VMQ silicone
Reinforcement	Several fabrics and steel wire spiral
Inner layer	Special VMQ Silicone
Diameter	From 6mm (1/4") to 508 mm (20")
Lengths	Straight hoses: from 1000 to 4000 mm.

VENA® SIL 500 R3

Elbows, reducers and convoluted hoses made of silicone with textile reinforcements.



PROPERTIES	DESCRIPTION
Outer layer	Special VMQ Silicone
Reinforcement	Several fabrics
Inner layer	FSpecial VMQ Silicone
Diameter	From 6mm (1/4") to 508 mm (20")
Lengths	Elbows: 100x100, 150x150, and 200x200 mm.

Special solutions

In addition to this range, Venair offers a large variety of hoses to meet any of its customers' needs:

- Highly flexible straight hose, including wire spiral between the silicone layers.
- Silicone hose with fabrics that can resist very high temperatures (Aramid or fiberglass)
- Silicone hose resistant to oils and hydrocarbon particles (SIL RA, Fluorosilicone, FKM...).
- Compensators and special shapes, designed to customer specifications.



Marine applications

Yachts & Boats • Power & Sail • Commercial & Military Vessels

Wet exhaust system

We manufacture silicone wet exhaust hoses for engine and auxiliary generator systems, used in in-board engine pleasure and commercial boats.

Manufactured from only the **highest quality silicones and reinforcement fabrics**, Venair's hoses are **highly resistant** to salt and weathering conditions.



Cooling systems

Our silicone hoses are suitable for heater and coolant applications. It will remain flexible after prolonged exposure to extreme temperatures, weather, or ozone - assuring a long life.

Silicone stands up to the **higher temperatures** of oil mist in normal operating conditions, perfect for all coolants.



Turbocharger

We can provide hoses that are specially designed for turbo-intercooler systems for marine. Our products present a high capacity to withstand hot pressurized air.

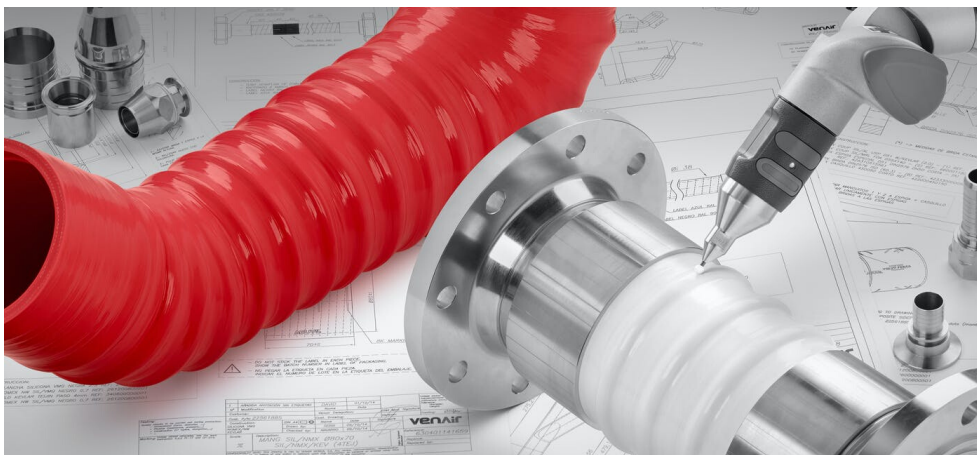


Developing custom solutions since 1986

Our technical & engineering team is responsible for safeguarding the interests of our clients in designing the optimal product for each application.

Together with the inventions that come out from our R&D department, we have developed and patented a wide range of products and we have more than 70 registered trademarks that support our innovative activity.

We can produce different hoses and ducting solutions made of silicone and other materials such as other elastomer, thermoplastics and composites to fulfill every demand.



CUSTOMIZATION IS OUR ADDED VALUE

Venair is an international group leader in engineering and manufacturing silicone hoses for the most demanding industries such as fuel cells, railway, defense, biotechnological, food, and pharmaceutical.

Throughout its 30 years of history, Venair has created an extensive international direct network that has led to three manufacturing centers in Spain, Vietnam and Romania and 30 delegations distributed in Europe, America, Asia and Africa.

Priorizing quality

We are committed to provide the highest quality in our products through state of the art facilities and third- party audits.

International presence

Our products are present in over 70 countries. We have an extensive network of 30 offices in 21 countries.

EUROPE

VENAIR GMBH NORTH
Emil-Figge-Strasse 80
44227 - Dortmund - GERMANY
T: (+49) 0231 97424490
kontakt@venair.com

VENAIR GMBH EAST
Rhinstraße 84
D-12681 Berlin - Germany
T: +49 (0) 30 549 865 06
kontakt@venair.com

VENAIR GMBH SOUTH
Robert-Bosch-Strasse 3
71691 - Freiberg am Neckar
Germany
T: +49 (0) 07141 9748653
kontakt@venair.com

VENAIR SARL
Champ Perrier
Parc du Grand Lyon
01700 - Neyron - FRANCE
T: +33(0) 437 85 08 60
contact@venair.com

VENAIR SARL WEST
Immeuble SKYLINE 22
Mail Pablo Picasso
44000 Nantes - FRANCE
contact@venair.com

VENAIR SWEDEN
Hälsingegatan, 45
11331 - Stockholm - SWEDEN
T: +46 (0) 703 773 931
sesales@venair.com

VENAIR SP. Z O.O. (Warsaw)
Grzybowska 80/82 lok.
700 00-844 Warszawa
T: (+39) 331 8180847
plsales@venair.com

VENAIR O.O.O
Ul. Novgorodskaya, 1
Building 5 - Office B420
127576 - Moscow - RUSSIA
T: (+7) 499 490 06 83
rusales@venair.com

VENAIR ESPAÑA
Cerdanya, 26 - Pol. Ind.
Nord
08226 - Terrassa - SPAIN
T: (+34) 937 364 861
esventas@venair.com

VENAIR ÜRÜNLER
Venair Silikon Ürünler
Mühendislik Ltd.
Şti. Görükle Mah. Fırat (490)
Cad. 19A Nilüfer/Bursa - TURKEY
T: (+90) 850 224 7747
venairtr@venair.com

VENAIR LTD
Unit 50, Gateway 49 Trade
Park
Kerfoot Street, Warrington
WA2 8NT
UNITED KINGDOM
T: (+44) 01925 629 617
uksales@venair.com

VENAIR MANUFACTURING S.R.L
Ploiesti West Park DN 72, KM 8,
London Street N. 7
Aricestii Rahtivani
107025 Ploiesti (Prahova)
T: +4034422090
rocontact@venair.com

VENAIR SRL
Viale del Fontanone, scn
Zona Industriale 15040 -
Castelletto
Monferrato (AL) - ITALY
T: (+39) 0131 1710737
T:(+39) 0131 1926962
commerciale@venair.com

AFRICA

VENAIR SOUTH AFRICA
1 Bompas Rd (2nd Floor),
Dunkeld West,
Johannesburg, 2196
T: (011) 431 3908
zasales@venair.com

ASIA

VENAIR CHINA NORTH
N.88 Jianguo Road, Building D,
Office 3112,SOHO New Town,
Chaoyang District, Beijing - CHINA
T: (+86) 010-86393497
cnsales@venair.com

VENAIR CHINA MIDDLE
Jiangkai Road 177, Building 3, Floor 1,
Room 02-03, Shanghai- CHINA
T: (+86) 021-60555117
cnsales@venair.com

VENAIR CHINA SOUTHWEST
Room P35, Flat 1101, Baiyang
Building, 18 Dongyu Street,
Jinjiang District, Chengdu,
Sichuan, China
T: (+86) 028-67561519
cnsales@venair.com

VENAIR CHINA SOUTH
Room 6023, Shangsheng Tower
B, Hemuling Street, Jiahe,
Wanggang, Baiyun District,
Guangzhou, China
T: (+86) 020-37415224
cnsales@venair.com

VENAIR INDIA NORTH
CoWorks, RMZ Infinity, 15, Delhi
- Jaipur Expy
Sector 18, Gurugram
122008 Haryana, INDIA
T:(+91) 124 662 09 51
insales@venair.com

VENAIR INDIA WEST
Suave Spaces
601, 602 Suratwala Mark Plazzo,
Hinjawadi, Pune
411057 Maharashtra, INDIA
T: (+91) 9158750222
insales@venair.com

VENAIR INDIA SOUTH
Survey No. 118/2
80 Feet Main Road, Jakkur
Bengaluru
560064 Karnataka, INDIA
T: (+91) 80 2973 6800
insales@venair.com

VENAIR INDIA WEST
Suave Spaces
601, 602 Suratwala Mark Plazzo,
Hinjawadi, Pune
411057 Maharashtra, INDIA
T: (+91) 9158750222
insales@venair.com

VENAIR INDIA SOUTH
Survey No. 118/2
80 Feet Main Road, Jakkur
Bengaluru
560064 Karnataka, INDIA
T: (+91) 80 2973 6800
insales@venair.com

VENAIR BIOTECH
Unit A, Floor 2
Standard Factory, Road 14
Tan Thuan EPZ, Tan Thuan Dong
Ward
District 7 - Ho Chi Minh City -
VIETNAM
T: (+84) 837 700 360
vnsales@vinasil.com

VENAIR SINGAPORE PTE LTD
110 Lor 23Geylang Street #04-06
Victory Center
388410 - Singapore - SINGAPORE
T: (+65) 6221 7445
sgsales@venair.com

VENAIR BANGKOK
T-One Building, 8 Sukhumit, 40
Alley,
Khet Khlong Toei, Phra Kharong,
Bangkok 10110
M:(+66) 98 696 2925
T:(+66) 25 08 89 72

NORTH AMERICA

VENAIR INC (Miami)
16713 Park Centre Blvd
Miami Gardens, FL 33169 - USA
T: (+1) 305 362 8920
usasales@venair.com

VENAIR INC (Los Angeles)
1693 E Del Amo Blvd
Carson, CA 90746 - USA
T: (+1) 424 785 8858
usasales@venair.com

VENAIR INC (Philadelphia)
The Navy Yard, Quarters M-2
4601 - South Broad Street
Philadelphia, PA 19112 - USA
T: (877) 329-2672
usasales@venair.com

VENAIR INC (Dallas)
7460 Warren Parkway, Ste. 100
#148
Frisco, TX 75034
M:(+1) 305 776 3915

CENTER AMERICA

VENAIR MEXICO
Godard, 108 col.
Héroes de Nacozári Gustavo
A. Madero
Ciudad de México, CP 07780
T: + 52 1 55 5547 7744
mxsales@venair.com

SOUTH AMERICA

VENAIR EIRELI
Rua João Teixeira da
Silva 167, Subsolo
Vila Invernada (Zona Leste)
03348-040 - São Paulo - BRAZIL
T: (+55) 11 3213 4968
brsales@venair.com