



Applications

This product is recommended to the use of nautical industry and the evacuation for the humid gas of the propulsion marines systems.

Vena® Sil 500 describes a type of construction used in the manufacturing of elbows, reductions, muff...

Limitations

Respect the work pressure established values.

Gas oil and oil stains do not damage the tubes, but they should not be used to transport fuel or oil, nor be submerged in these liquids.

This product is not recommended for the transport of abrasive particles.

Regulations

- This hose has the Type Examination certificate (TEC) issued by DNV. It is in compliance with the SAE J2006 R1 and R3 classes and the ISO/DIN 13363 for silicone pieces used in the marine wet exhaust system.
- This hose is in compliance with the SAEJ2006 R1 and R3 classes certified with Lloyd's Register Type Approval Certificate (TAC).
- Silicone rubber used is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS).

Properties

- Not affected by anti-freeze or antirust liquids.
- Highly resistant to hardening with very good compression characteristics.
- Excellent flexibility during the assembly process.
- Smooth inner and outer appearance, red internal color and blue external color.
- Excellent resistance to thermal aging and oxidizing agents (oxygen, ozone, UV).
- Operational temperature range from -50°C (-58 F) to +180°C (356 F), it may reach up to 200°C (392 F) during short periods of time.
- Standard length (straight hoses): from 100 to 4000 mm.
- Standard length (convoluted hoses): 100, 160, 170, 200, 220, 250, 300 and 350 mm.
- Standard length of legs (elbows): 100x100, 150x150, and 200x200 mm.

Technical Specifications

Inner Diameter		Wall Thickness		Working Pressure ISO 1402/2009	
<i>mm</i>	<i>inch</i>	<i>+1/ -0.5 mm</i>	<i>+0.04/ -0.02 inch</i>	<i>Bar at 20°C</i>	<i>Psi at 68°F</i>
6.00	1/4	4.3	0.17	21.30	308.93
8.00	5/16	4.3	0.17	17.30	250.91
10.00	3/8	4.3	0.17	14.70	213.20
13.00	1/2	4.3	0.17	12.00	174.04
16.00	5/8	4.3	0.17	10.30	149.38
18.00	5/7	4.3	0.17	9.70	140.68
20.00	3/4	4.3	0.17	9.00	130.53
22.00	7/8	4.3	0.17	8.30	134.88
25.00	1	4.3	0.17	7.70	111.67
28.00	1 1/8	4.3	0.17	7.00	101.52
32.00	1 1/4	4.3	0.17	6.30	91.37
35.00	1 3/8	4.3	0.17	6.00	87.02
38.00	1 1/2	5.3	0.21	5.70	82.67
40.00	1 9/16	5.3	0.21	5.30	76.87
42.00	1 21/32	5.3	0.21	5.30	76.87
45.00	1 3/4	5.3	0.21	5.00	72.51
50.00	1 65/64	5.3	0.21	4.70	68.16
51.00	2	5.3	0.21	4.70	68.16
63.00	2 1/2	5.3	0.21	4.00	58.01
76.00	3	5.3	0.21	3.30	47.86
90.00	3 1/2	5.3	0.21	3.00	43.51
100.00	3 15/16	5.3	0.21	2.70	39.16
102.00	4	5.3	0.21	2.40	34.80
110.00	4 2/6	5.3	0.21	2.40	34.80
120.00	4 3/4	5.3	0.21	2.30	33.35
134.00	5 1/4	5.3	0.21	1.90	27.55
152.00	6	7.0	0.27	1.37	19.87
180.00	7	7.0	0.27	1.30	18.85
203.00	8	7.0	0.27	1.17	16.96
254 to 300	10 to 11 13/16	7.0	0.27	0.83	12.03
301 to 508	11 27/32 to 1 ft 8 inch	10.0	0.39	0.83	12.03

Construction

Vena® Sil 500 is manufactured exclusively with VMQ (Vinyl-Methyl Quality) silicone and reinforce with a few layers of polyester. The standard size range goes from 6 to 508mm (1/4" to 20") for straight hoses, elbows and convoluted hoses.

Construction depending on diameter sizes:

-6 to 35mm:

- 1 ply of VMQ (Vinyl-Methyl Quality) silicone
- 3 plies of polyester fiber coated with VMQ silicone

-38 to 150mm (have an additional ply of polyester fiber):

- 1 ply of VMQ (Vinyl-Methyl Quality) silicone
- 4 plies of polyester fiber coated with VMQ silicone

-151 to 300mm (have two additional plies of polyester fiber and the thickness of VMQ silicone layer is greater):

- 1 ply of VMQ (Vinyl-Methyl Quality) silicone
- 5 plies of polyester fiber coated with VMQ silicone

-301 to 508mm (have three additional plies of polyester fiber and the thickness of VMQ silicone layer is greater):

- 2 plies of VMQ (Vinyl-Methyl Quality) silicone
- 6 plies of polyester fiber coated with VMQ silicone