VENA®
SIL
(VENA® SIL 200)

Primarily designed for coolants (water & glycol) in water-cooling systems where high resistance to pressure and elevated temperatures is required. The silicone material, along with textile reinforcements, ensures dimensional stability and durability in systems subjected to continuous thermal cycling.

- Cooling and heating circuits in buses, coaches, trucks, and industrial vehicles.
- Cooling systems in cogeneration units and marine engines.
- Transfer of high-temperature fluids in general industrial processes.

PROPERTIES

- **Chemical Compatibility**: Not affected by anti-freeze or anti-rust liquids.
- **Mechanical Performance**: Highly resistant to hardening, with excellent compression characteristics.
- **Assembly Flexibility**: Outstanding flexibility facilitates easy installation and assembly.
- **Appearance**: Smooth inner and outer surfaces, standard blue color. Other colors (red, green, black, etc.) available upon request.
- **Thermal and Environmental Resistance**: Excellent resistance to thermal aging and oxidizing agents such as oxygen, ozone, and UV radiation.
- **Operating Temperature Range**: From -60 °C (-75 °F) up to +180 °C (356 °F), with short-term resistance up to 200 °C (392 °F).
- **Standard Length**: Manufactured in standard 4 m (13.12 ft) lengths. Custom shorter lengths available upon request.
- **Customization**: Elbows, reducers, and other special configurations can be supplied with the same construction.

CONSTRUCTION MATERIALS

VMQ silicone with three polyester fabric reinforcements.
Alternatives:

- **VENA SIL RA**: Inner layer of brown-red R/A silicone, which resists oil drops.
- **VENA SIL FVMQ**: Inner layer of black FVMQ silicone, which withstand hydrocarbon and oil particles.
- **VENA SIL FKM**: Inner layer of black FKM, for a higher resistance to oil and hydrocarbons.

QUALITY AND COMPLIANCE

- Meets or exceeds operating requirements of SAE J20 R1 Class A.
- Silicone rubber used is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS).

TECHNICAL SPECIFICATIONS

Inner Diameter		Wall thickness		Working Pressure		Bursting Pressure	
				ISO 1402		ISO 1402	
mm	inch	+1.0/ -0.5 mm	+0.04/ -0.02 inch	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F
6	1/4	4.30	0.17	16.2	234.4	48.5	703.3
13	1/2	4.30	0.17	9.7	140.6	29.1	421.7
19	3/4	4.30	0.17	7.3	105.4	21.8	316.1
25	1	4.30	0.17	5.9	85.6	17.7	256.7
32	1 1/4	4.30	0.17	4.9	70.8	14.7	212.5
38	1 1/2	4.30	0.17	4.3	62.2	12.9	186.5
45	1 3/4	4.30	0.17	3.8	54.7	11.3	164.0
51	2	4.30	0.17	3.4	49.7	10.3	149.1
57	2 1/4	4.30	0.17	3.2	45.7	9.5	137.0
63	2 1/2	4.30	0.17	2.9	42.3	8.8	127.0
70	2 3/4	4.30	0.17	2.7	39.1	8.1	117.2
76	3	4.30	0.17	2.5	36.5	7.6	109.5
80	3 1/8	4.30	0.17	2.3	33.6	7.0	100.85
90	3 1/2	4.30	0.17	1.9	27.8	5.7	83.2
100	4	4.30	0.17	1.7	23.9	5.0	71.8

LIMITATIONS

Respect the work pressure established values.
For optimal performance, it is recommended to be installed in straight sections without tight bends or curves.
Hydrocarbon and oil stains do not damage the hose, but it should not be used to transport fuel or oil, nor be submerged in these liquids.
It is not recommended for applications with negative pressure (vacuum).
It is not recommended for the transport of abrasive particles.

CONTACT

IMPORTANT: The Company reserves the right to change, amend, modify, suspend, continue or terminate all or any part of this Document at any time without notice. It is the user's responsibility to ensure the suitability and safety of the VENAIR products for all intended uses. All the tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of the hoses in any particular application.

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venair
Fluid solutions. Solid performance.