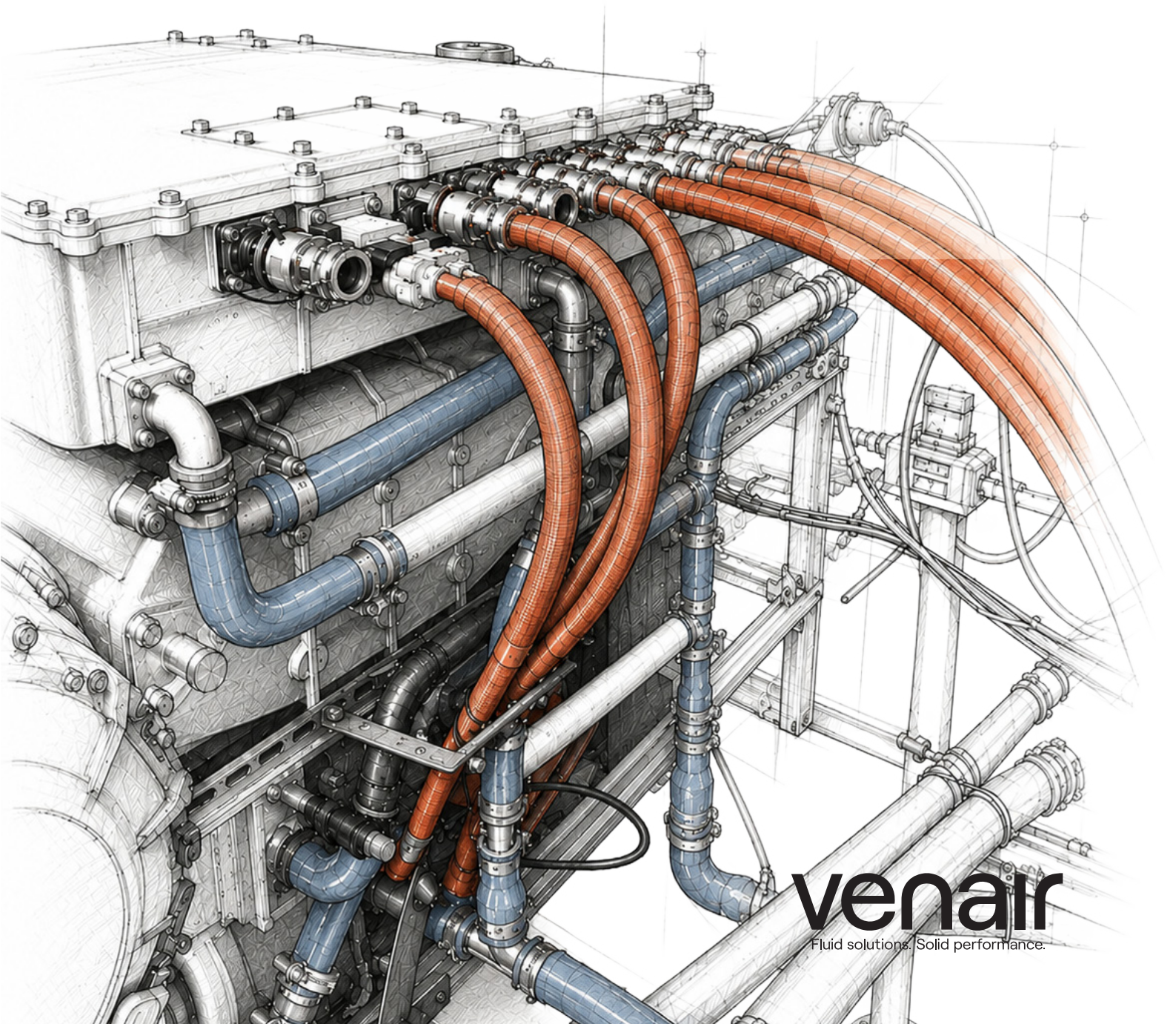


HIGH PERFORMANCE

High Performance hoses and
flexible solutions for demanding
industries



venair
Fluid solutions. Solid performance.



ABOUT US

At Venair, we design and manufacture fluid transfer solutions for critical applications across the world's most demanding industries.

With more than 40 years of experience and a presence in 104 countries, we support customers in Biopharma, Food & Beverage, Clean Energy and High Performance sectors through engineered products designed for reliability, safety and performance.

Our commitment to quality is backed by internationally recognized certifications, including ISO 9001, ISO 14001, ISO 13485 and IATF 16949. As a pioneer in hydrogen technologies, Venair became the first company in the world to obtain DNV certification for flexible tubes used in marine fuel cell applications.

Together, we help ensure the continuous operation of critical processes worldwide.

- ISO 9001
- ISO 14001
- ISO 13485
- IATF 16949
- DNV



WHY INDUSTRY LEADERS CHOOSE VENAIR



Innovation & Materials

- Advanced material development
- Hydrogen and clean energy technologies
- Continuous product innovation



Engineering Expertise

- Customized fluid transfer solutions
- Application-specific design
- Technical consulting and support



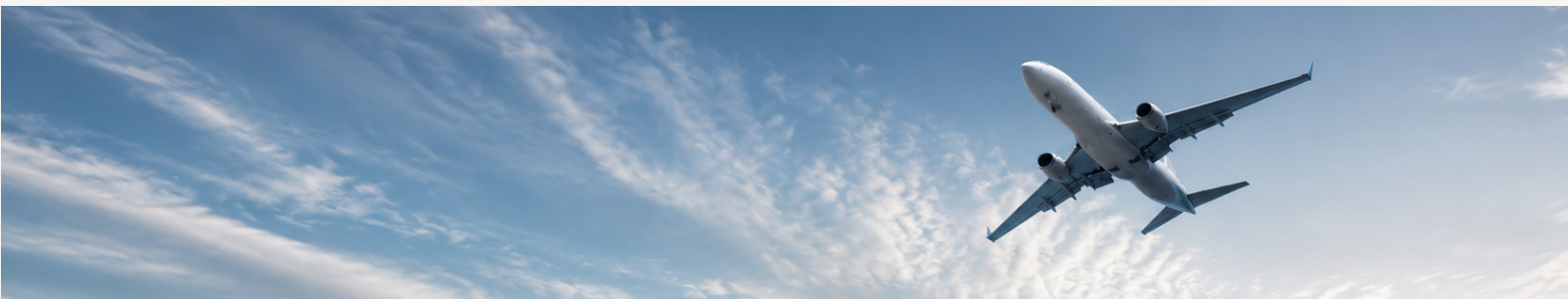
Quality & Validation

- Product testing and validation
- Industry-specific certifications
- Global quality standards



Manufacturing Excellence

- Custom and series production
- Advanced manufacturing processes
- Reliable global supply



HIGH PERFORMANCE

High Performance industries require fluid transfer solutions capable of operating under extreme conditions where reliability, durability and safety are critical. From railway, aerospace and defense applications to heavy-duty vehicles, marine systems and industrial equipment, every environment demands materials and components engineered to perform in the most challenging operating conditions.

Modern transportation and industrial systems face increasingly demanding requirements regarding temperature resistance, vibration, pressure fluctuations, mechanical stress and long-term reliability. Whether managing cooling circuits, air intake systems, exhaust extraction, fluid conveyance or thermal management applications, hose and tubing solutions play a vital role in ensuring equipment performance, operational safety and service continuity.

Venair develops advanced hose, tubing and ducting solutions designed for critical applications involving air, liquids, gases and thermal management systems. Our products support essential functions such as cooling and heating circuits, ventilation systems, turbocharger connections, exhaust extraction, fuel handling and vibration compensation across a wide range of high-performance industries.

Combining advanced materials, specialized reinforcements and internationally recognized certifications, Venair helps manufacturers improve system reliability, extend equipment lifespan and meet the demanding performance requirements of modern industrial, transportation and mobility applications.



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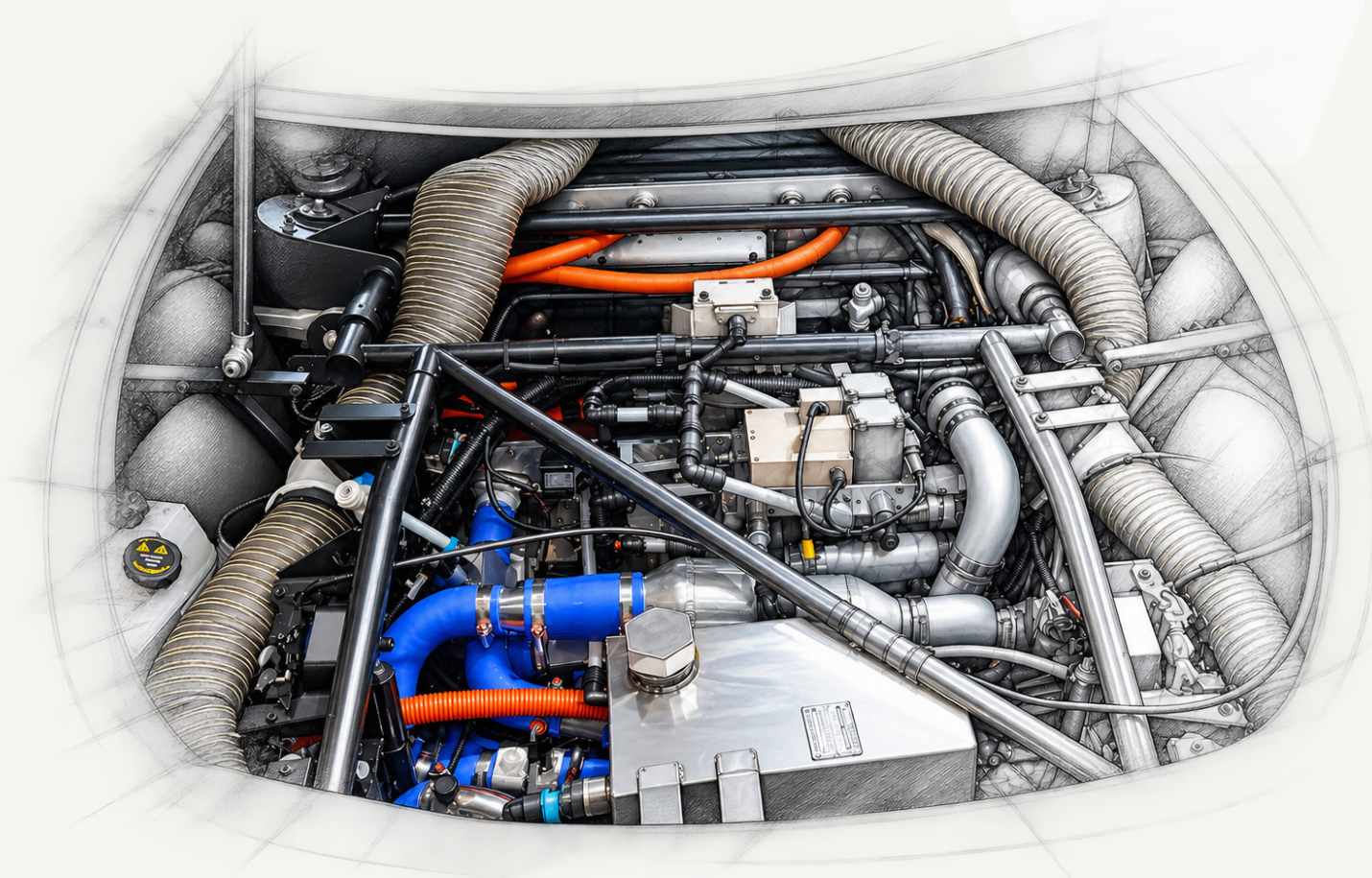
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1.1 COOLING SYSTEMS

Cooling systems play a critical role in maintaining the operating temperature of engines, batteries, industrial equipment and power generation systems. Efficient thermal management helps maximize system performance, prevent overheating and extend component service life, even under continuous operation and demanding conditions.

Typical applications include water, glycol and coolant circuits in commercial vehicles, heavy-duty machinery, marine engines, generator sets, industrial equipment and other systems where thermal stability is essential. Venair develops high-performance silicone hose solutions specifically engineered for heating and cooling circuits, providing excellent resistance to temperature, pressure, thermal aging and vibration. Our products ensure safe and reliable fluid transfer while delivering long-term performance in the most demanding applications.



1.1.1 VENA® SIL

Flexible silicone hose



MATERIAL

Peroxide cured silicone with 3 polyester fabric.

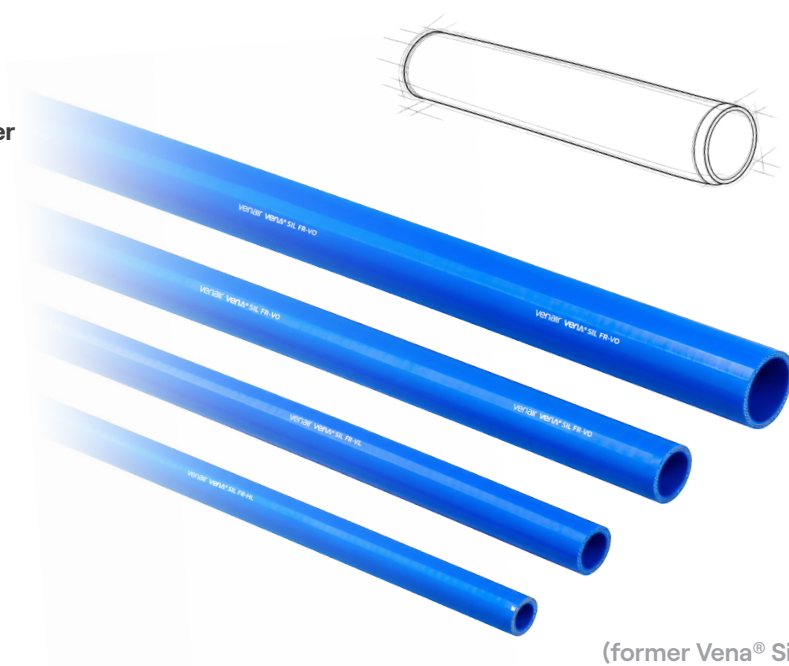


TEMPERATURE

-60°C to +180°C

(-75°F to +356°F)

Short peaks up to +200°C (+392°F).



(former Vena® Sil 200)



CERTIFICATIONS

- SAE J20 R1 CLASS A
- RoHS compliant



STANDARD MANUFACTURING LENGTH

Standard 4 m (13.12ft) lengths. Custom shorter lengths available.



APPLICATIONS

- Cooling and heating circuits in buses, coaches, trucks and industrial vehicles
- Marine engine cooling systems
- Cogeneration unit cooling systems
- High-temperature fluid transfer
- Industrial cooling circuits
- Water and glycol cooling systems
- Heavy-duty vehicle cooling applications
- Systems exposed to continuous thermal cycling

PRODUCT VARIANTS

Need higher pressure?

VENA® SIL PLUS



(former Vena® Sil 240)

▷ 4 PLIES OF POLYESTER FABRIC

Need vacuum or tight bending radius?

VENA® SIL FLEX



(former Vena® Sil 700/V)

▷ SPIRAL STEEL WIRE BETWEEN TWO PLIES

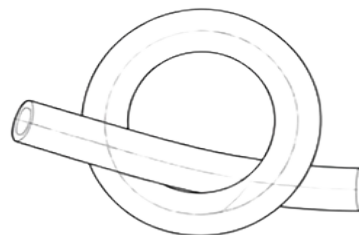
1.1.2 VENA® HEATER

Braided silicone tubing



MATERIAL

Peroxide cured silicone + Polyester braiding.

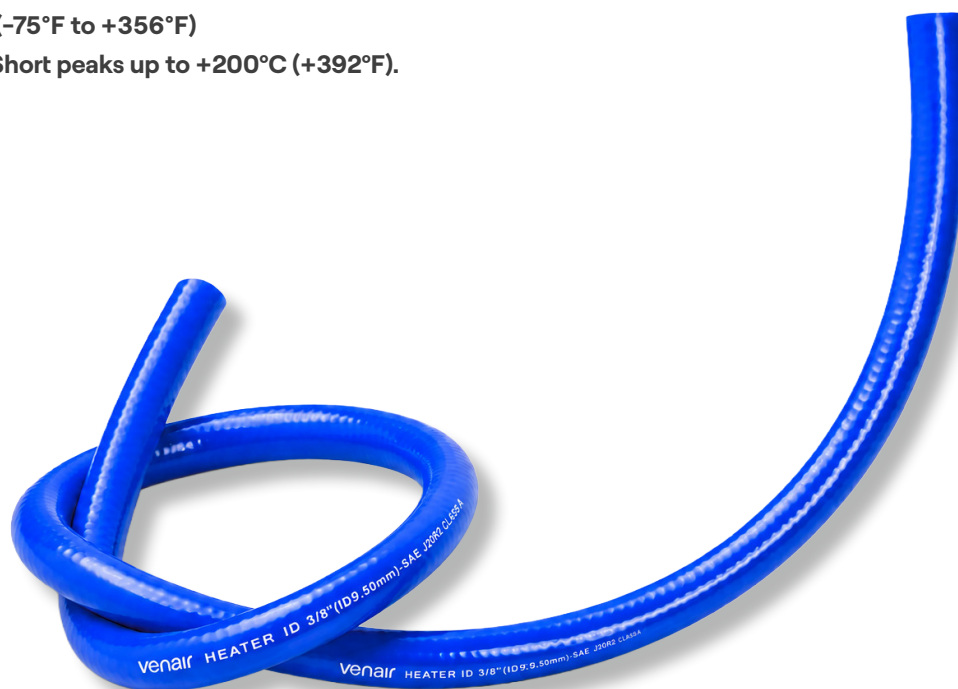


TEMPERATURE

-60°C to +180°C

(-75°F to +356°F)

Short peaks up to +200°C (+392°F).



(Former Vena® Technosil Heater Hose)



CERTIFICATIONS

- SAE J20 R3 CLASS A
- RoHS compliant



STANDARD MANUFACTURING LENGTH

Standard 76m (249.34ft) coils. Shorter lengths available upon request.



APPLICATIONS

- | | | |
|---|--|--|
| <ul style="list-style-type: none">• Heater systems• Engine coolant circuits• Water and ethylene glycol transfer | <ul style="list-style-type: none">• Heavy-duty truck cooling systems• Bus cooling systems• Automotive coolant applications | <ul style="list-style-type: none">• Ground vehicle thermal management systems• Auxiliary heating circuits |
|---|--|--|

1.1.3 VENA® SIL LL-RT

High-tech silicone hose



MATERIAL

Brick red peroxide cured silicone with 3 high temperature fabric.

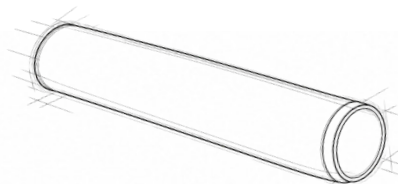


TEMPERATURE

-60°C to +200°C

(-75°F to +392°F)

Short peaks up to +220°C (+428°F).



CERTIFICATIONS

- SAE J20 R1 Class A
- Pulse Pressure Fatigue Test during 1391hours, 500.000 cycles. Pressure test shows no pressure resistance loss after aging, no signs of chemical incompatibility with the coolant, small/regular opening angle, no diametric expansion after work.
- RoHS compliant



STANDARD MANUFACTURING LENGTH

1 m to 4 m (3.28 to 13.12ft) standard lengths. Custom lengths available.



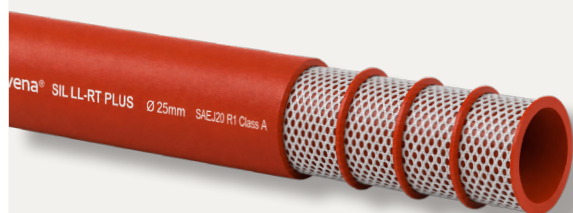
APPLICATIONS

- Cooling and heating systems in buses, coaches, trucks and heavy machinery
- Marine engine cooling systems
- Cogeneration unit cooling systems
- High-temperature fluid transfer
- Water and glycol cooling circuits
- OAT coolant systems
- Heavy-duty industrial cooling applications
- Systems exposed to extreme thermal cycling

PRODUCT VARIANTS

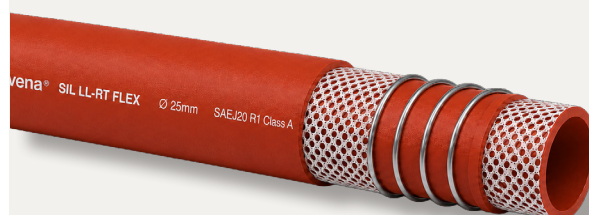
Need higher pressure?

VENA® SIL LL-RT PLUS



Need vacuum or tight bending radius?

VENA® SIL LL-RT FLEX



▷ 4 PLIES OF FABRIC

▷ SPIRAL STEEL WIRE BETWEEN TWO PLIES

STANDARD SHAPES

STRAIGHT



AVAILABLE DIAMETERS (mm)

6/10/13/16/19/22/25
32/38/45/51
57/63/70/76
89/102

45° / 90° / 135° ELBOWS



AVAILABLE DIAMETERS (mm)

LENGTH (mm)

6/10/13/19	100*100 150*150 200*200
25/32/38/51	
63/76/89*/102*	

*For ID 89 mm and ID 102 mm, the 90° elbow option (100 × 100 mm) is not available.

REDUCER



AVAILABLE DIAMETERS (mm)

LENGTH (mm)

19 -> 13	63 -> 57	32 -> 25	70 -> 63	100
25 -> 19	76 -> 57	44 -> 25	89 -> 63	
38 -> 25	76 -> 63	51 -> 32	89 -> 76	
51 -> 25	76 -> 70	51 -> 44	102 -> 89	150
51 -> 38	102 -> 76	63 -> 51		
57 -> 51	127 -> 102	76 -> 51		
70 -> 51	25 -> 13	70 -> 57		

1.2 INTERCOOLING & TURBO

1.2.1 VENA® TURBO

Silicone hoses for turbocharger - Intercooler / CAC hoses



MATERIAL

Silicone VMQ (Vinyl Methyl Quality) + FVMQ (Fluor-Vinyl Methyl Quality) Inside



TEMPERATURE

55°C to +200°C

(-67°F to +392°F)

Short peaks up to +220°C (+428°F).



CERTIFICATIONS

• RoHS compliant



STANDARD MANUFACTURING LENGTH

Customized product.



APPLICATIONS

- Turbocharger systems
- Intercooler and Charge Air Cooler (CAC) systems

- Compressed air transfer in turbocharged engines
- Heavy-duty trucks and buses

- Construction and agricultural machinery
- Industrial engines
- Applications exposed to hydrocarbons and oil particles in the pressurized charge air circuit

PRODUCT VARIANTS



▷ STRAIGHT CONNECTOR

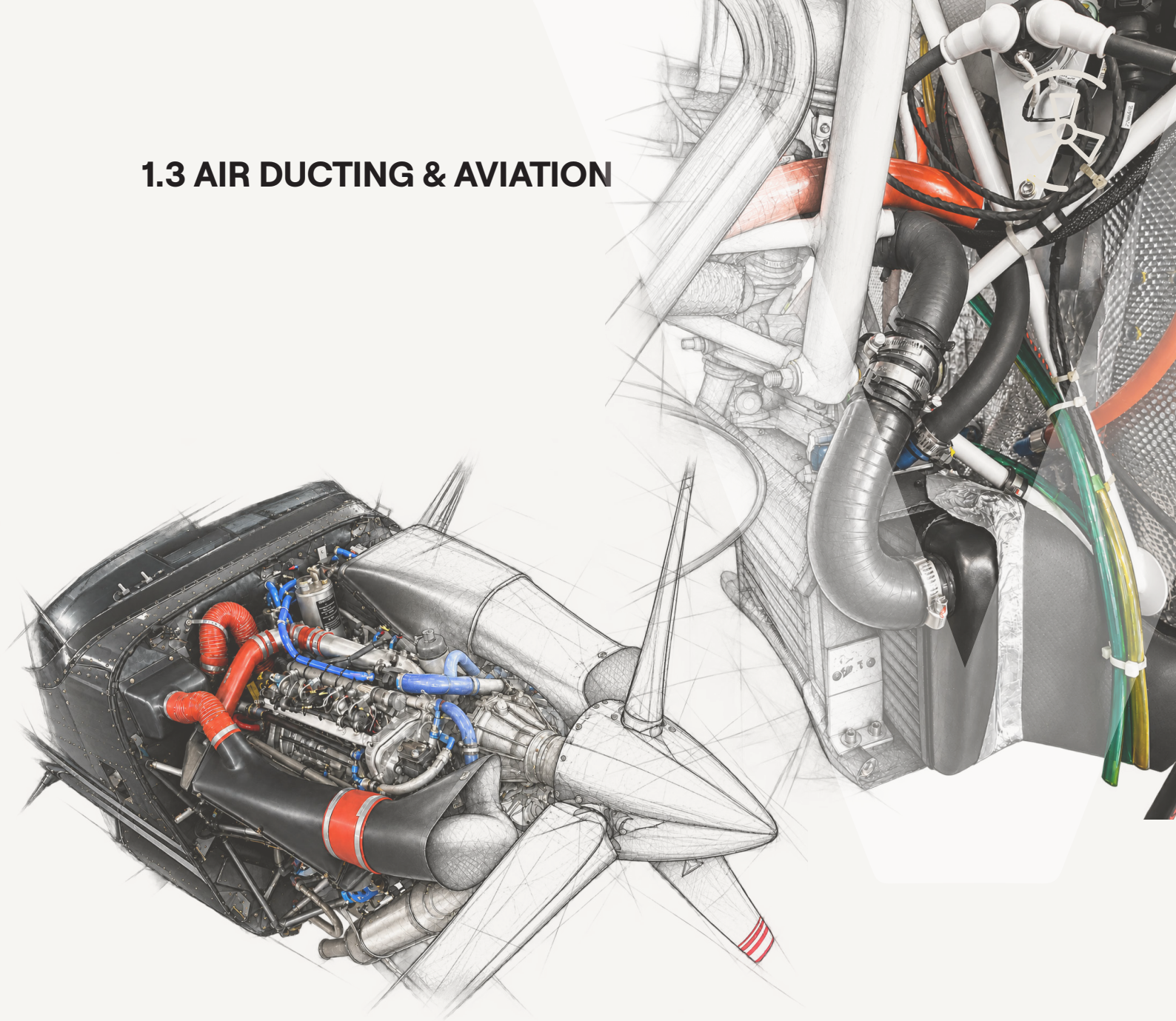


▷ TURBOLOADER REDUCER



▷ REDUCER ELBOW 90°

1.3 AIR DUCTING & AVIATION



Efficient air management is essential across industrial and aerospace applications, where flexible ducting systems must operate reliably under demanding temperatures, pressure variations, vibration and continuous mechanical stress. Lightweight construction, flexibility and long-term durability are key to ensuring safe and efficient system performance.

Typical applications include air intake and distribution, ventilation, hot and cold air ducting, electronic equipment cooling, cable protection and auxiliary air management systems in industrial equipment, commercial vehicles, power generation systems and commercial, military and general aviation aircraft.

Venair develops high-performance flexible ducting solutions engineered to combine excellent thermal resistance, mechanical strength and lightweight construction. Manufactured from advanced materials, our products provide reliable air transfer and long-term performance in demanding operating environments.

1.3.1 VENA® AIR

Neoprene ducting for high temperature air



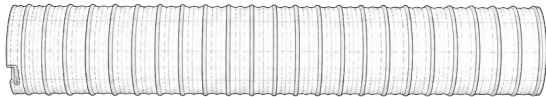
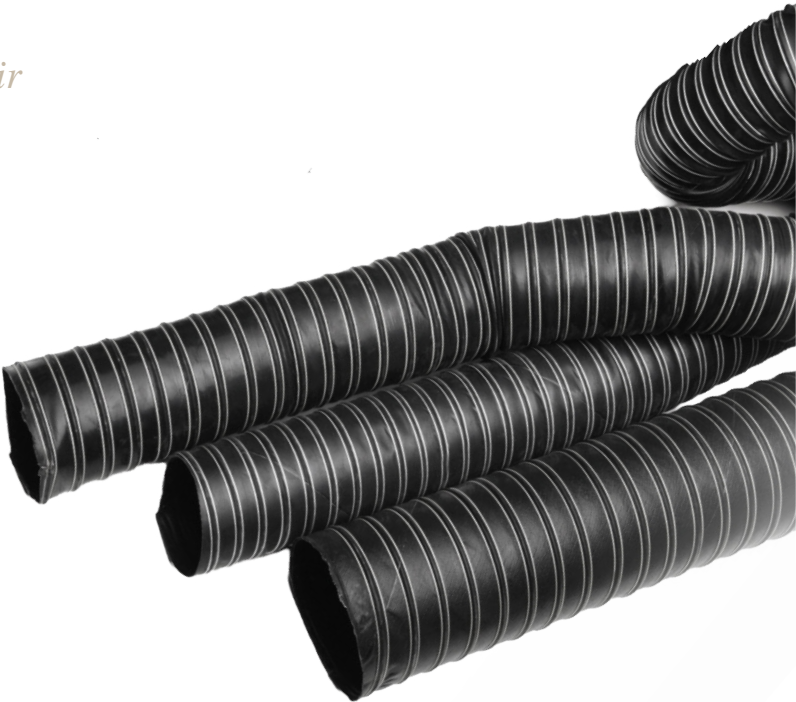
MATERIAL

Black neoprene and fiberglass + spiral steel wire



TEMPERATURE

-55°C to +125°C
(-67°F to +257°F)
Short peaks up to +150°C (+302°F).



(former Vena® MT)



CERTIFICATIONS

- RoHS compliant
- FAR 25.853 (b)
- ISO 9100
- AS 1502
- AS 1503 (Air Plus)



STANDARD MANUFACTURING LENGTH

Standard length of 4 m (13.12 ft.). Available up to 6 m (19.69 ft.) in specific diameters. Manufactured in straight lengths with cuffed ends available upon request.



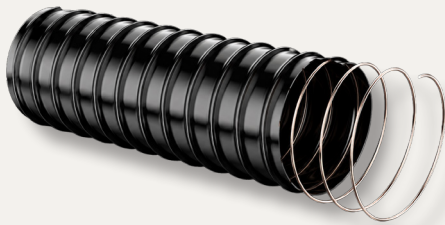
APPLICATIONS

- | | | |
|--|---|--|
| <ul style="list-style-type: none">• Gas conduction at medium temperatures• Engine exhaust fume extraction• Electronic unit cooling systems | <ul style="list-style-type: none">• Welding gas aspiration systems• Industrial ventilation systems• Air handling applications | <ul style="list-style-type: none">• Flexible hot air transfer• Medium-temperature gas transport |
|--|---|--|

PRODUCT VARIANTS

Need higher pressure?

VENA® AIR PLUS



1.3.2 VENA® AIR HT

Silicone ducting for high temperature air



MATERIAL

Silicone VMQ (Vinyl Methyl Quality) and fiberglass
+ spiral steel wire

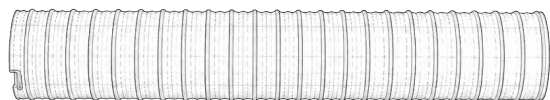


TEMPERATURE

-55°C to +260°C

(-67°F to +500°F)

Short peaks up to +300°C (+572°F).



(former Vena® HT)



CERTIFICATIONS

- RoHS compliant
- FAR 25.853 (b)
- ISO 9100
- AS 1502
- AS 1503 (HT Plus)



STANDARD MANUFACTURING LENGTH

Standard length of 4 m (13.12 ft.). Available up to 6 m (19.69 ft.) in specific diameters. Manufactured in straight lengths with cuffed ends available upon request.



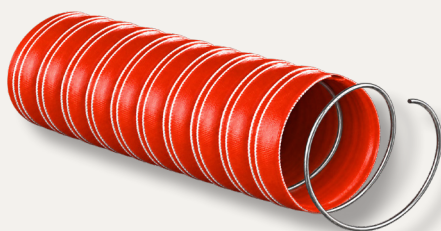
APPLICATIONS

- High-temperature gas conduction systems
- Brake cooling systems
- Engine exhaust fume extraction
- Electric cable protection
- Hot air circulation systems
- Industrial ventilation and extraction
- High-temperature equipment protection

PRODUCT VARIANTS

Need higher pressure?

VENA® AIR HT PLUS



1.3.3 VENA[®] AIR CRAFT

Super light neoprene ducting for medium temperature air



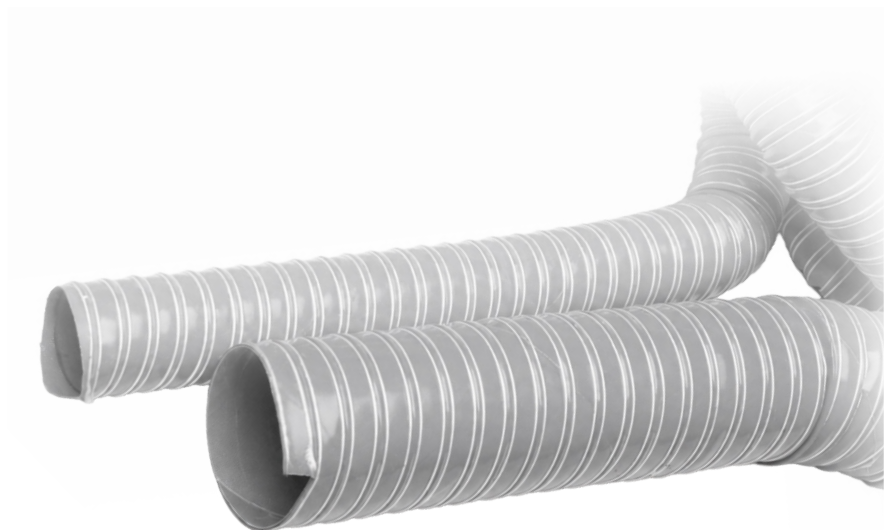
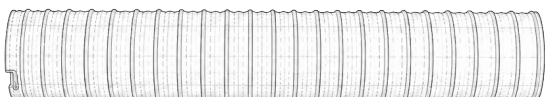
MATERIAL

Two layers of synthetic fabric with CSM-CR and steel wire spiral between layers and an additional insulation layer. fabric cover.



TEMPERATURE

-20°C to +125°C
(-4°F to +257°F)



CERTIFICATIONS

- FAR 25853 (b)
- ISO 9100



STANDARD MANUFACTURING LENGTH

Standard manufacturing length is 4 m (13.12 ft.).



APPLICATIONS

- Aircraft cabin air distribution
- Low-pressure air ducting
- Aircraft HVAC systems
- Installations where low weight is critical
- Confined and difficult-to-access areas
- Applications requiring thermal insulation and noise reduction

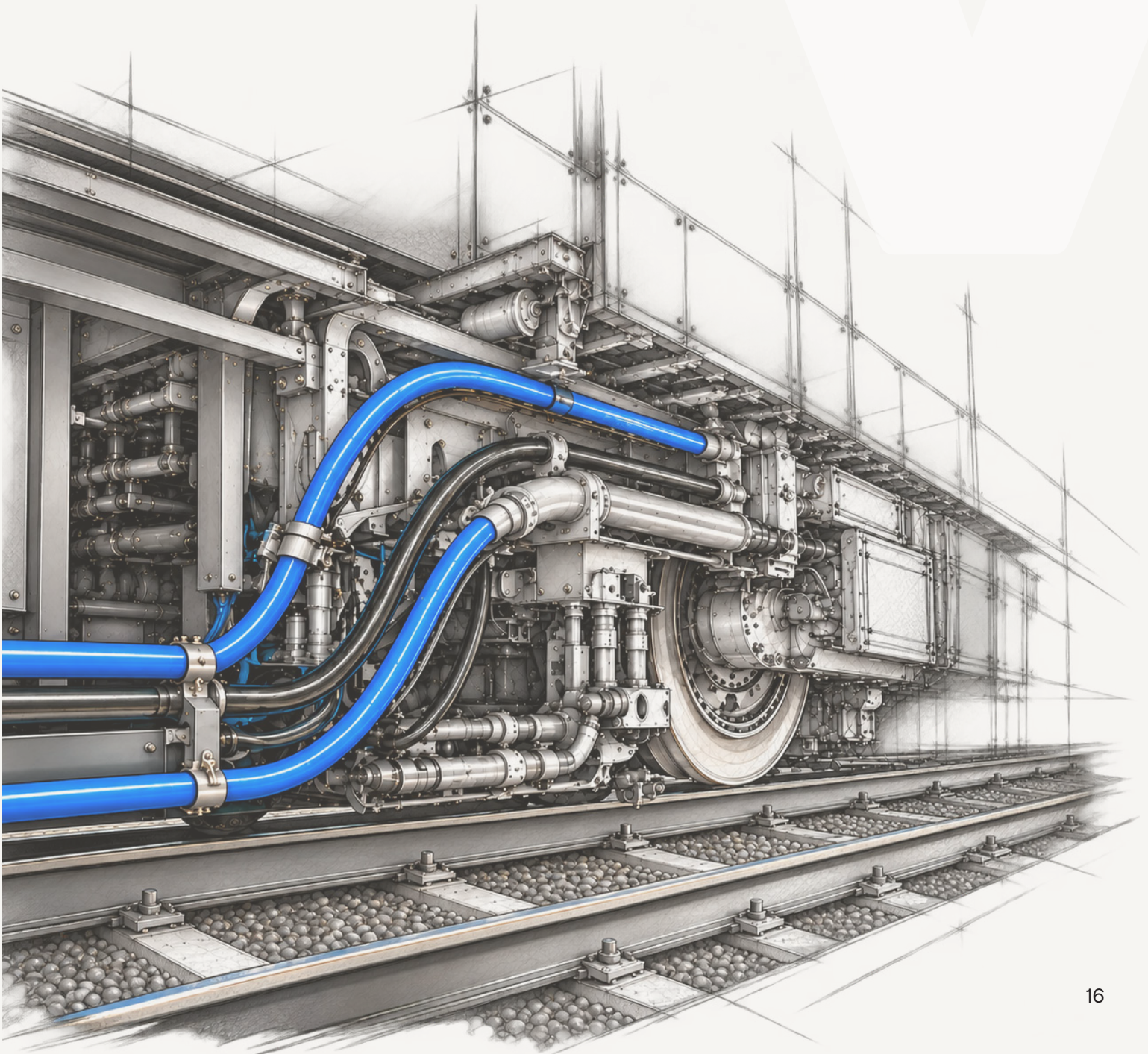
1.4 RAILWAY



The railway industry requires fluid transfer solutions capable of delivering maximum safety, reliability and durability throughout the service life of the vehicle. On-board systems must withstand continuous vibration, harsh environmental conditions and comply with the most demanding international fire safety and smoke emission regulations.

Typical applications include cooling systems, heating circuits, potable water distribution and auxiliary fluid transfer systems installed in high-speed trains, metro systems, trams, locomotives and other rolling stock.

Venair develops certified silicone hose solutions for railway applications, combining high mechanical performance, thermal resistance and compliance with leading international railway standards to meet the requirements of modern rail transportation.



1.4.1 VENA® RAIL

Highly flexible flame retardant silicone hose



MATERIAL

Blue flame-retardant silicone rubber with 3 textile reinforcement.

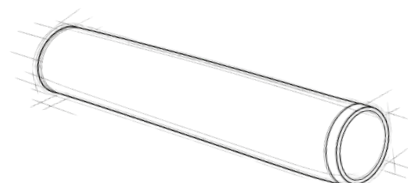
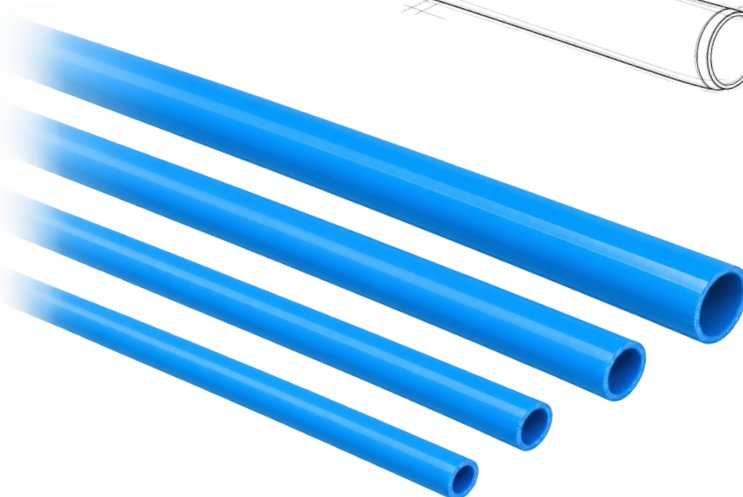


TEMPERATURE

-60°C to +200°C

(-75°F to +392°F)

Short peaks up to +220°C (+428°F).



CERTIFICATIONS

- EN 45545-2 HL3 R23 & HL2 R22
- NFPA 130
- UL-94 V0
- ASTM E1354
- RoHS compliant



STANDARD MANUFACTURING LENGTH

1 m to 4 m (3.28 ft to 13.12 ft). Straight, elbows and custom shapes available.



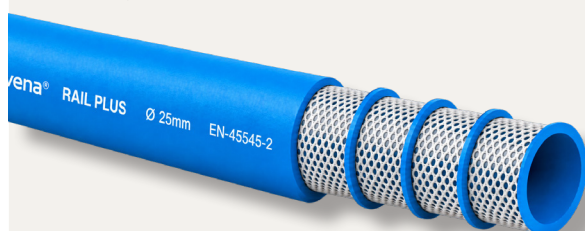
APPLICATIONS

- Water cooling systems in railway vehicles
- HVAC railway systems
- Liquid transfer systems in railway applications
- Heating circuits in rolling stock
- Air transfer systems in vehicles and engines
- Fluid transfer connections in equipment subject to fire safety regulations

PRODUCT VARIANTS

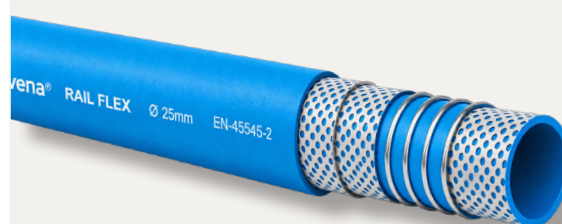
Need higher pressure?

VENA® RAIL PLUS



Need vacuum or tight bending radius?

VENA® RAIL FLEX



1.4.2 VENA® RAIL PURE

Highly flexible food grade flame retardant silicone hose



MATERIAL

Food grade flame-retardant silicone rubber with textile reinforcement.

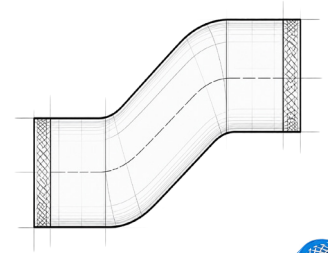


TEMPERATURE

-60°C to +200°C

(-75°F to +392°F)

Short peaks up to +220°C (+428°F).



CERTIFICATIONS

- EN 45545-2 HL3 R23 & HL2 R22
- RoHS compliant
- FDA compliant – inner layer



STANDARD MANUFACTURING LENGTH

Straight lengths from 1 m to 4 m (3.28 ft to 13.12 ft). Available in straight sections, elbows, and custom-shaped hoses.



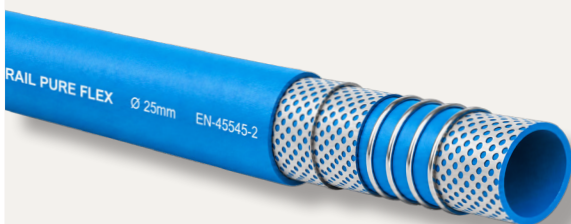
APPLICATIONS

- Potable water transfer systems
- Railway water distribution systems
- Food and beverage transfer applications
- High-purity fluid transfer systems
- On-board railway water circuits
- Applications requiring low smoke and toxicity levels
- Fire-sensitive environments
- Applications exposed to vibration and movement during operation

PRODUCT VARIANTS

Need vacuum or tight bending radius?

VENA® PURE FLEX



▷ 3 PLYS OF POLYESTER FABRIC+ STEEL WIRE SPRING

1.4.3 VENA® AIR RAILWAY

Flame retardant neoprene ducting for railway industry



MATERIAL

Fiberglass textile reinforcement coated with neoprene rubber compound with embedded steel wire.

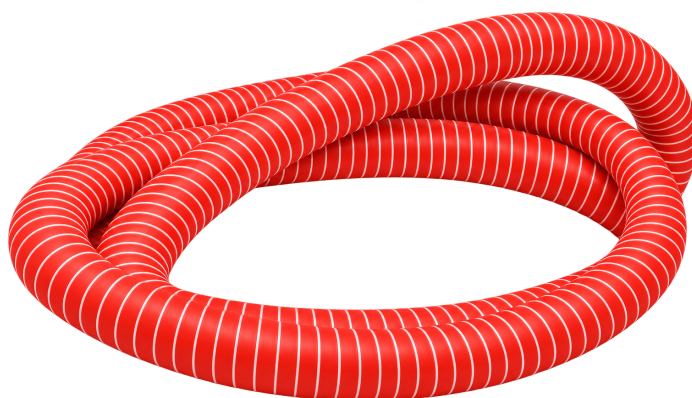
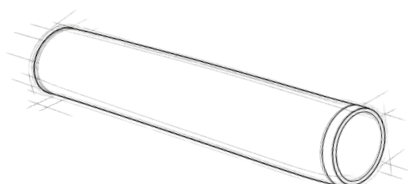


TEMPERATURE

-55°C to +125°C

(-67°F to +257°F)

Short peaks up to +150°C (+302°F)



(former Vena®MTD Eco)



CERTIFICATIONS

- EN 45545-2 HL2 for Category R1, HL3 for R22 and HL3 for R23
- NFPA 130
- ASTM E1354



STANDARD MANUFACTURING LENGTH

Standard length of 4 m (13.12 ft.). Available up to 6 m (19.69 ft.) in specific diameters. Manufactured in straight lengths with cuffed ends available upon request.



APPLICATIONS

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> • Engine exhaust fume extraction • Electronic units cooling • Welding gas aspiration | <ul style="list-style-type: none"> • Medium-temperature gas conduction • Railway ventilation systems | <ul style="list-style-type: none"> • Applications exposed to vibration and movement • Fire-sensitive railway environments |
|--|--|---|

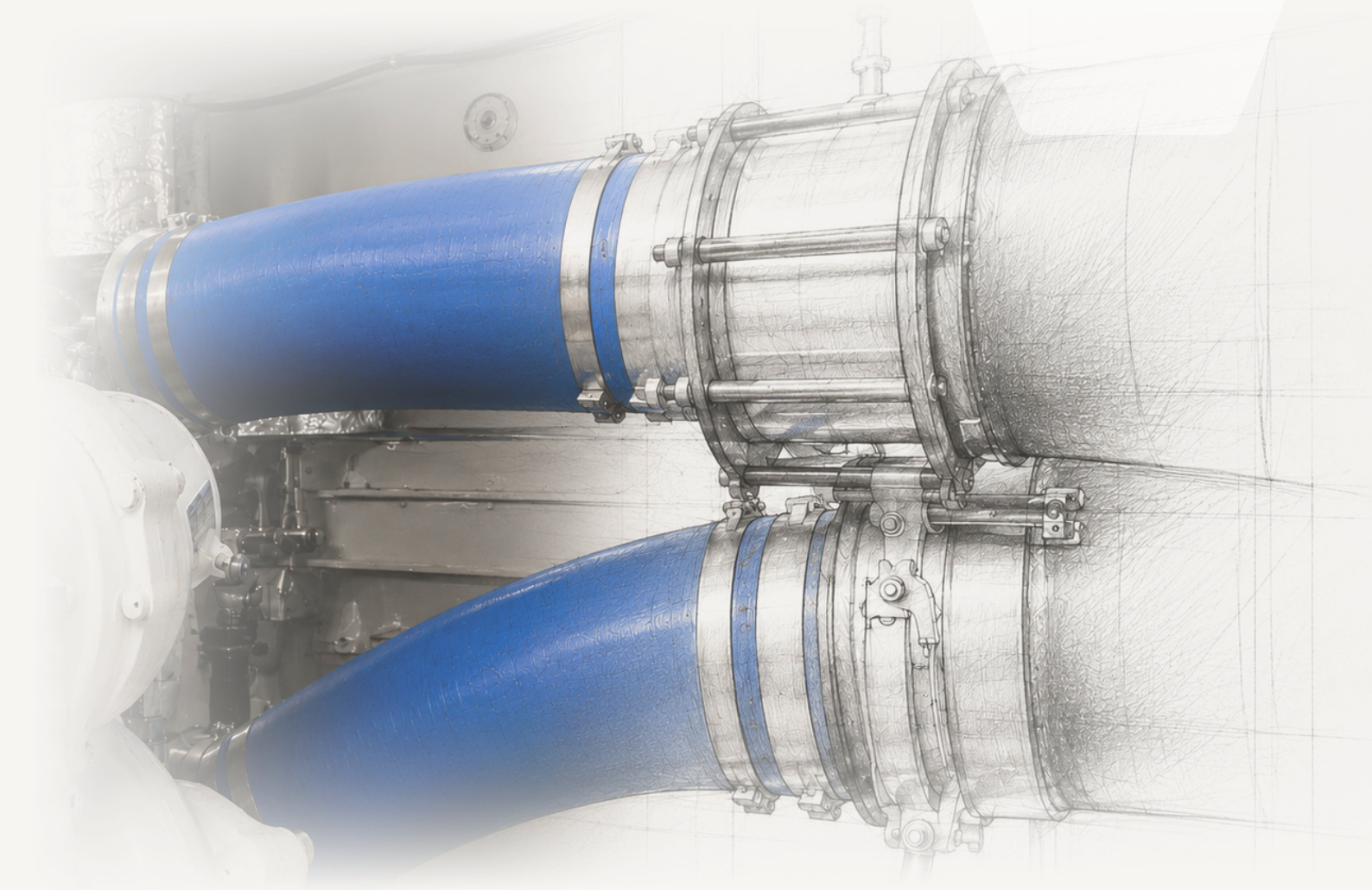
1.5 MARINE



Marine applications operate in highly demanding environments where continuous exposure to saltwater, humidity, vibration and elevated temperatures places exceptional demands on fluid transfer systems. Reliable hose performance is essential to ensure engine efficiency, operational safety and long-term durability.

Typical applications include wet exhaust systems, engine cooling circuits, water transfer lines and engine connections for commercial vessels, recreational boats, workboats and other marine applications.

Venair manufactures silicone hose solutions specifically engineered for the marine industry, providing outstanding resistance to heat, thermal aging and harsh environmental conditions while complying with internationally recognized marine standards.



1.5.1 VENA® MARINE

Silicone hoses for wet exhaust systems in marine industry



MATERIAL

Bright red silicone inner layer + Blue outer layer
+ Polyester fabric

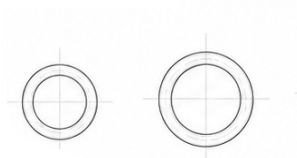


TEMPERATURE

-55°C to +180°C

(-67°F to +356°F)

Short peaks up to +200°C (+392°F)



(former Vena® SII 500)

CERTIFICATIONS



- This product has the Type Approval Certificate (TAC) number 12/00066 issued by Lloyd's Register, which certify the compliance with the SAE 2006 for the three styles R1, R2 and R3 and also with the ISO/DIN 133663 for silicone pieces used in the marine wet exhaust system.
- RoHS compliant



STANDARD MANUFACTURING LENGTH

Straight hoses: 100–4000 mm. Convolved hoses: 100–350 mm.



APPLICATIONS

- Marine wet exhaust systems
- Engine exhaust manifold connections
- Exhaust discharge systems
- Nautical industry applications
- Marine engine cooling and exhaust circuits
- Commercial marine vessels
- Recreational boats and yachts
- High-temperature marine fluid systems

PRODUCT VARIANTS

Need vacuum or tight bending radius?

VENA® MARINE FLEX



▷ SPIRAL STEEL WIRE BETWEEN TWO PLIES

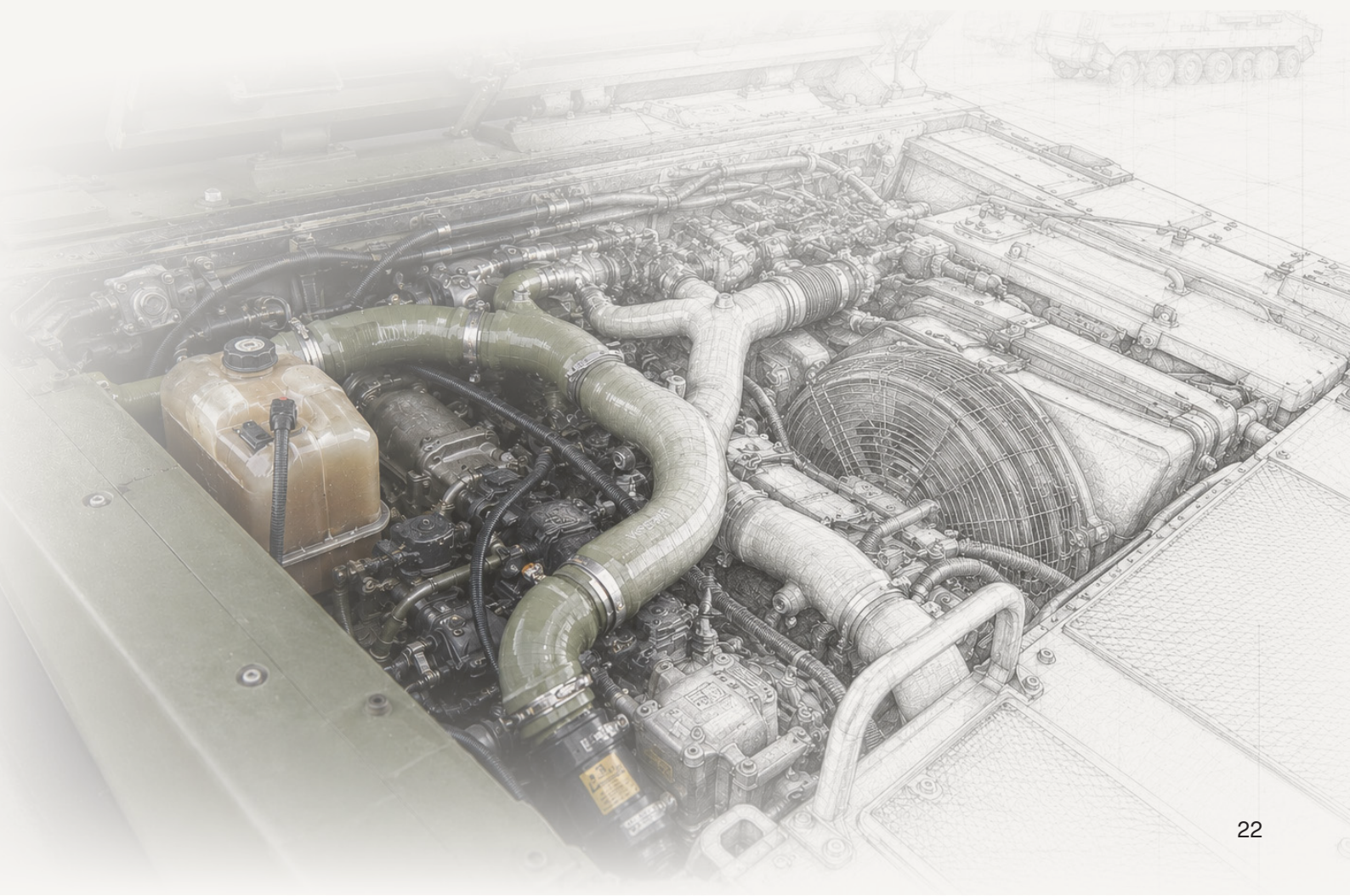


1.6 MILITARY

Military vehicles and defense equipment operate in some of the world's most demanding environments, where reliability is critical to mission success. Cooling and fluid transfer systems must withstand extreme temperatures, vibration, mechanical stress and harsh environmental conditions while maintaining consistent performance.

Typical applications include tactical vehicles, armored vehicles, military trucks, specialized equipment and defense platforms powered by diesel or gasoline engines.

Venair develops military-grade silicone hose solutions manufactured in accordance with military specifications, delivering exceptional thermal resistance, durability, flexibility and reliable performance under the most demanding operating conditions.



1.6.1 VENA® MILTECH

Heavy-duty silicone hose for military and defense cooling systems



MATERIAL

Military green silicone rubber
with 4 textile reinforcements



TEMPERATURE

-60°C to +180°C
(-76°F to +356°F)
Peaks up to +220°C (+428°F).



CERTIFICATIONS

- MILSPEC A-A-52426 Type I & II
- SAE J20 R1
- RoHS compliant



STANDARD MANUFACTURING LENGTH

Standard 4 m lengths. Custom shorter lengths available.



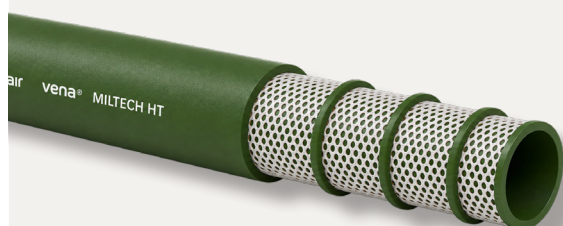
APPLICATIONS

- Military vehicle cooling systems
- Military vehicle heating systems
- Combat vehicle engine cooling
- Diesel and gasoline engine cooling circuits
- Trucks and buses
- Off-road equipment
- Heavy-duty commercial vehicles

PRODUCT VARIANTS

Need higher temperature resistance?

VENA® MILTECH HT



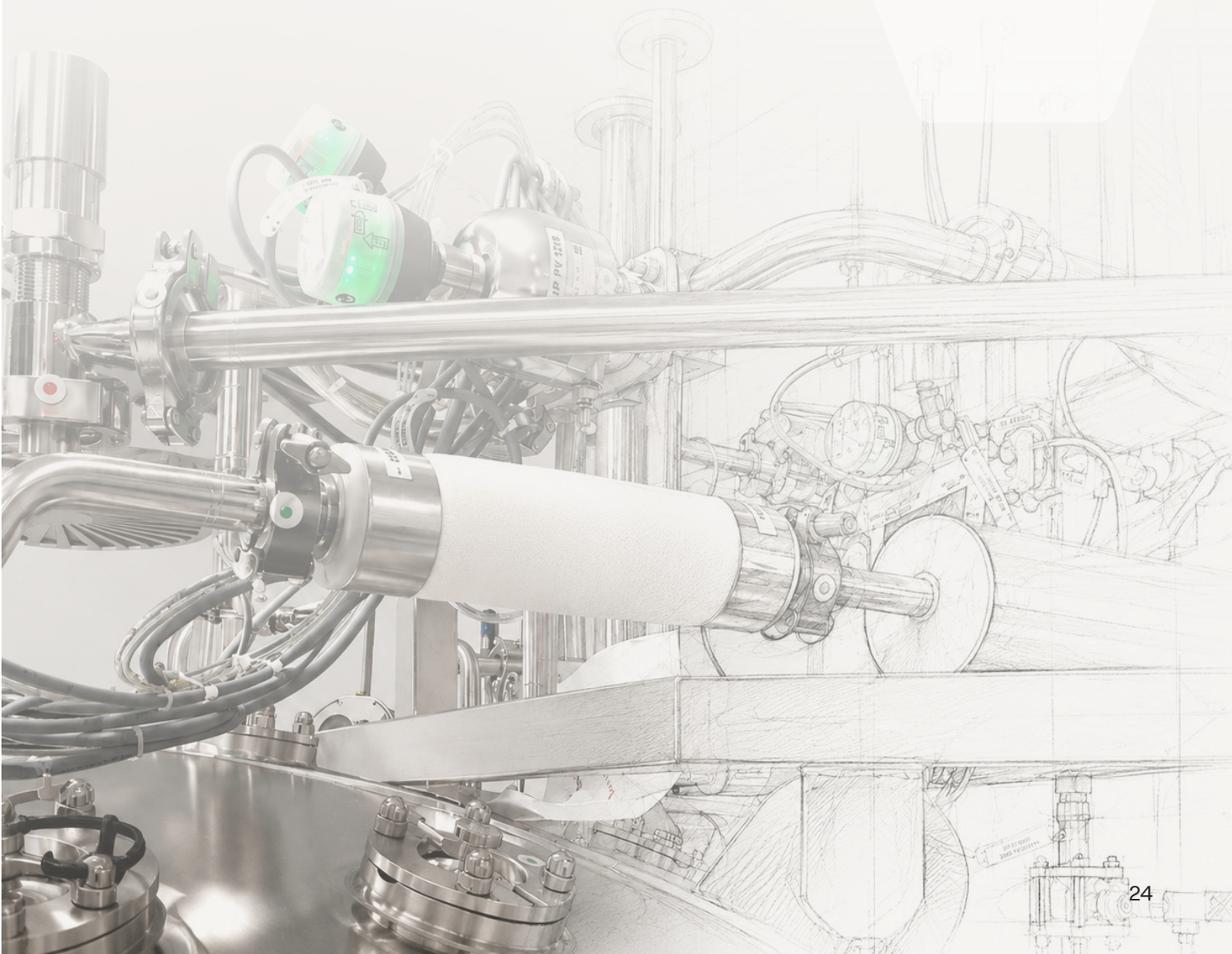
▷ ARAMID FABRIC BETWEEN SILICONE PLIES



1.7 THERMAL MANAGEMENT

Effective thermal management is essential to ensure the performance, reliability and durability of high-performance systems operating under demanding conditions. As power density and thermal loads increase, efficient heat transfer and precise temperature control become critical to protecting components, optimizing system efficiency and preventing premature failure.

Venair develops advanced thermal management solutions for cooling, heating and thermal insulation applications across high-performance industries. Our products are designed for coolant and fluid circulation, air and thermal management circuits, and temperature-controlled systems, providing reliable performance in applications where high temperatures, vibration, pressure and demanding operating conditions are key factors.



1.7.1 HEATED

Electrically heated transfer system



MATERIAL

Peroxide silicone hose with an integrated electrical resistance



TEMPERATURE

-55°C/+ 180°C (-67°F/+356°F)
Peaks up to +200°C (392°).

Set temperature: 0°C/200°C
(32°F/+392°F).



CERTIFICATIONS

• RoHS compliant according to inner layer



STANDARD MANUFACTURING LENGTH

Available up to 6 m (19.69 ft).



APPLICATIONS

- Transfer of viscous products
- Temperature-controlled processing systems

- Heated transfer lines

- Processes requiring consistent product temperature throughout production

*Regulator available upon request.

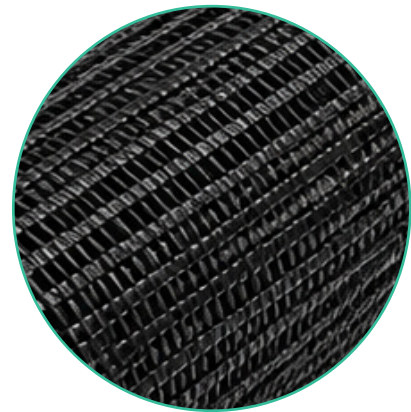
1.7.2 VENA® HEATED LITE

Electrically heated transfer system



STANDARD CONSTRUCTION

Silicone hose with a self-regulating heating cable and insulating foam jacket, designed to maintain a stable and uniform product temperature for optimal flow while keeping the outer surface cool to the touch. No external temperature controller or sensors are required. The hose is protected by a black polymer braid and finished with plastic fittings at both ends.



STANDARD MANUFACTURING LENGTH

Available up to 6 m (32.81 ft).



CONFIGURATIONS

Construction and length tailored to each application.
Inner diameters: 19, 25, 38 and 51 mm.

Temperature options: 40 °C (104 °F), 60 °C (140 °F) or 80 °C (176 °F), ± 5 °C (± 9 °F).
Voltage: 110 V or 220 V, according to customer requirements.



APPLICATIONS

Specially designed for convey viscous products that need to maintain a regular temperature during the transfer process.
Engineered with self-regulating heating trace to avoid the need of external controllers or temperature sensors.

2. SPECIAL CUSTOM ENGINEERED SOLUTIONS

Venair's main added value is the capacity to manufacture and deliver any kind of custom made product to suit the market requirements.

As so, we offer different kind of solutions that can be applied to any of the products from the industrial catalogue.

ALU PROTECTIONS

Aluminium protection foil for specific focus of temperature



MATERIAL - CONSTRUCTION

Special aluminum coated fiberglass.



APPLICATIONS

This solution is used mainly to reflect the heat radiation when the hose is very near to the heat focus, which grants a longer life to the product.

- Perfect adhesion to silicone material
- This product can be applied to any Venair silicone hose



HOSE-FITTING COMBINATION

Custom engineered connections



MATERIAL - CONSTRUCTION

Any material can be used (Inox, Aluminum, plastic...) Standard or custom design.

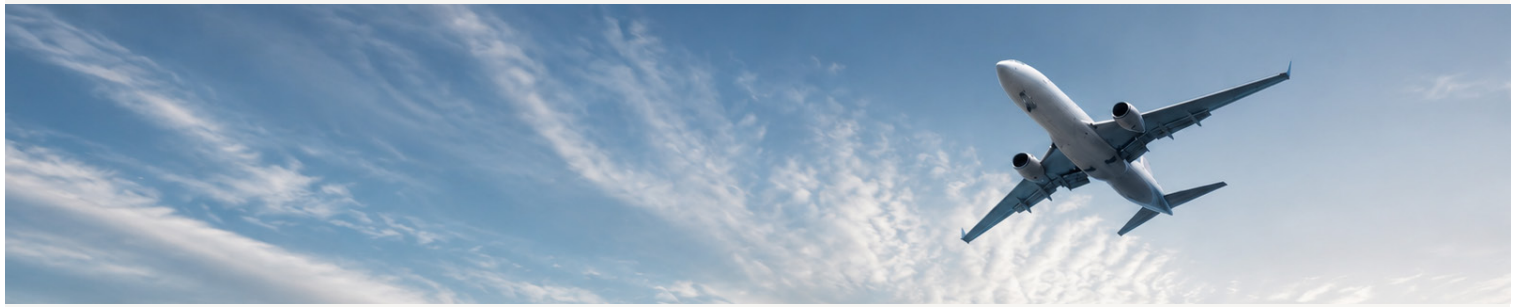


APPLICATIONS

For improving the connection systems, reducing the leaks and increasing efficiency against extreme working conditions while reducing time assembly and warranty issues.

- Custom design for maximizing efficiency
- Crimped or embedded on the hose





CUSTOM SHAPES AND DUCTINGS

Custom engineered shapes and air ducting solutions



MATERIAL - CONSTRUCTION

Wide variety of materials and constructions adapted to each requirement.



APPLICATIONS

Manufactured according the customer's needs for any industrial application.

- Custom design for maximizing efficiency
- Customized product



CUSTOM MARKING



MATERIAL

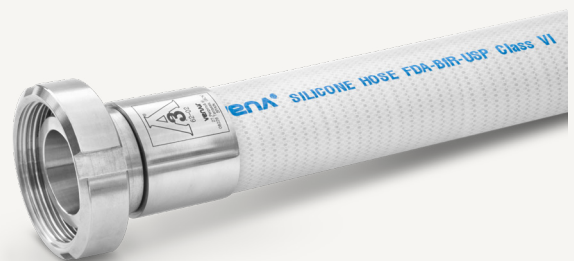
Laser marking.



APPLICATIONS

Marking can be customized according to customer's needs.

- Any customer reference and additional logotype can be added to the Venair standard marking
- All our silicone products and metal connections can be marked by laser



3. SPECIFICATION CHARTS

VENA® SIL/SIL LL-RT

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		BURSTING PRESSURE 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	48.5	703
13	1/2			9.7	141	29.1	422
19	3/4			7.3	105	21.8	316
25	1			5.9	86	17.7	257
32	1 1/4			4.9	71	14.7	213
38	1 1/2			4.3	62	12.9	187
45	1 3/4			3.8	55	11.3	164
51	2			3.4	50	10.3	149
63	2 1/2			2.9	42	8.8	127
76	3			2.5	37	7.6	110
89	3 1/2			1.9	28	5.7	83
102	4			1.7	24	5.0	72

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® SIL PLUS

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		BURSTING PRESSURE 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	5.30	0.20	21.2	307	63.5	921
13	1/2			12.2	176	36.5	529
19	3/4			9.3	134	27.8	403
25	1			7.6	110	22.8	331
32	1 1/4			6.4	92	19.1	277
38	1 1/2			5.6	82	16.9	245
45	1 3/4			5.0	72	15.0	217
51	2			4.6	66	13.7	198
63	2 1/2			3.9	57	11.7	170
76	3			3.4	50	10.3	149
89	3 1/2			3.0	44	10.3	132
102	4			2.8	41	8.4	122

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® SIL FLEX

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		BURSTING PRESSURE ISO 1402		BENDING RADIUS ISO 1746	
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	mm	inch
6	1/4	5.00	0.20	18.8	273	56.4	819	21	0.80
13	1/2			16.5	239	49.5	718	34	1.30
19	3/4			14.7	213	44.0	638	49	1.90
25	1			13.0	188	38.9	565	66	2.60
32	1 1/4			11.1	161	33.3	483	92	3.60
38	1 1/2			9.8	143	29.5	427	113	4.40
45	13/4			8.4	122	25.2	366	143	5.60
51	2			7.3	107	22.0	320	173	6.80
63	2 1/2			5.7	82	17.0	246	239	9.40
76	3			4.5	65	13.5	196	324	12.70
89	3 1/2			4.0	58	12.0	174	429	16.90
102	4			4.1	60	12.3	180	513	20.20

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® HEATER

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		BURSTING PRESSURE ISO 1402		BENDING RADIUS ISO 1746	
mm	inch	±0.5 mm	±0.02 inch	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F	mm	inch
6.3	1/4	3.45	0.14	9.6	139	28.8	418	0.95	13.78
7.9	1/3	3.55	0.14	8.8	128	26.5	384	0.95	13.78
9.5	3/8	3.55	0.14	7.7	112	23.0	334	0.95	13.78
12.7	1/2	3.80	0.15	6.8	99	20.3	294	0.90	13.05
15.8	5/8	4.35	0.17	5.9	86	17.8	258	0.70	10.15
19.0	3/4	4.45	0.18	5.1	74	15.2	220	0.70	10.15
22.0	7/8	4.65	0.18	5.0	73	15.0	218	0.70	10.15
25.4	1	4.55	0.18	4.9	71	14.8	214	0.55	7.98
28.0	1 1/8	5.00	0.20	4.4	64	13.2	191	0.20	2.90
32.0	1 1/4	5.50	0.22	3.9	57	11.8	171	0.16	2.32

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® AIR / AIR HT

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402/2009		BURSTING PRESSURE ISO 1402/2009		VACUUM RESISTANCE ISO 7233/2009		BENDING RADIUS ISO 1746/2000	
mm	inch	mm	inch	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F	mm	inch
25	1	1.56	0.061	1.8	26	5.2	76	0.5	8	34.47	1.36
38	1 1/2	1.56	0.061	1.6	23	4.7	68	0.5	7	51.84	2.04
51	2 1/64	1.56	0.061	1.4	21	4.2	61	0.4	6	69.21	2.72
63	2 31/64	1.90	0.075	1.3	19	3.8	55	0.3	5	85.24	3.36
76	3	1.90	0.075	1.2	17	3.4	50	0.3	5	102.61	4.04
102	4 1/64	2.20	0.087	0.9	13	2.7	40	0.2	3	137.34	5.41
127	5	2.20	0.087	0.8	11	2.2	32	0.2	3	170.74	6.72
152	6	2.20	0.087	0.6	9	1.8	26	0.1	2	204.68	8.06
203	8	2.40	0.094	0.4	6	1.1	17	0.1	1	272.28	10.72
254	10	2.40	0.094	0.3	4	0.7	11	0.1	1	340.41	13.40
300	11 13/16	2.40	0.094	0.2	3	0.5	7	0.1	1	401.87	15.82

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® AIR PLUS / AIR HT PLUS

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402/2009		BURSTING PRESSURE ISO 1402/2009		VACUUM RESISTANCE ISO 7233/2009		BENDING RADIUS ISO 1746/2000	
mm	inch	mm	inch	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F	mm	inch
25	1	2.16	0.085	2.3	33	6.8	99	0.6	9	38	1.49
38	1 1/2	2.16	0.085	2.0	29	6.0	87	0.5	8	57	2.26
51	2 1/64	2.16	0.085	1.7	26	5.3	77	0.5	7	77	3.03
63	2 31/64	2.50	0.098	1.5	23	4.7	69	0.4	6	95	3.74
76	3	2.50	0.098	1.4	20	4.2	61	0.4	6	115	4.51
102	4 1/64	2.80	0.110	1.1	16	3.3	48	0.3	4	154	6.06
127	5	2.80	0.110	0.8	13	2.6	38	0.2	3	192	7.54
152	6	2.80	0.110	0.6	10	2.0	30	0.1	2	230	9.05
203	8	3.00	0.118	0.4	6	1.3	19	0.1	1	306	12.05
254	10	3.00	0.118	0.2	4	0.8	12	0.1	1	383	15.08
300	11 13/16	3.00	0.118	0.1	3	0.5	8	0.1	1	452	17.81

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® RAIL

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		BURSTING PRESSURE 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	30.6	444	91.8	1331
13	1/2			15.7	228	47.2	684
19	3/4			10.8	156	32.3	469
25	1			8.2	119	24.6	357
32	1 1/4			6.4	93	19.2	279
38	1 1/2			5.4	78	16.2	235
48	1 7/8			4.4	63	13.1	189
51	2			4.0	59	12.1	176
63	2 1/2			3.3	47	9.8	142
76	3			2.7	39	8.1	118
89	3 1/2			2.3	34	7.0	101
102	4			2.0	29	6.1	88

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® RAIL PLUS

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		BURSTING PRESSURE 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	5.30	0.21	31.0	450	93.1	1350
13	1/2			18.2	264	54.6	792
19	3/4			13.2	191	39.6	574
25	1			10.5	152	31.4	455
32	1 1/4			8.5	123	25.5	369
38	1 1/2			7.3	106	22.0	319
48	1 3/4			6.1	89	18.3	266
51	2			5.7	83	17.2	249
63	2 1/2			4.8	69	14.3	208
76	3			4.1	59	12.2	177
89	3 1/2			3.6	52	10.7	155
102	4			3.2	46	9.5	138

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® RAIL FLEX

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		WORKING PRESSURE ISO 1402		BURSTING PRESSURE ISO 1402	
mm	inch	+1.05/-0.8 mm	+0.06/-0.03 inch	mm	inch	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F
6	1/4	5.5	0.22	45	1.77	31.7	460	95.1	1379
13	1/2			65	2.56	19.8	288	59.5	863
19	3/4			85	3.35	15.0	217	45.0	652
25	1			105	4.13	12.2	178	36.7	533
32	1 1/4			125	4.92	10.2	148	30.6	444
38	1 1/2			145	5.71	9.0	131	27.0	392
51	2			185	7.28	7.2	105	21.7	315
63	2 1/2			230	9.06	6.2	90	18.6	270
76	3			280	11.02	5.7	78	16.2	235
89	3 1/2			335	13.19	4.8	70	14.4	209
102	4			395	15.55	4.4	63	13.1	189

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® RAIL PURE

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		BURSTING PRESSURE 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	30.6	444	91.8	1331
13	1/2			15.7	228	47.2	684
19	3/4			10.8	156	32.3	469
25	1			8.2	119	24.6	357
32	1 1/4			6.4	93	19.2	279
38	1 1/2			5.4	78	16.2	235
51	2			4.0	59	12.1	176
63	2 1/2			3.3	47	9.8	142
76	3			2.7	39	8.1	118
89	3 1/2			2.3	34	7.0	101
102	4			2.0	29	6.1	88

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® AIR RAILWAY

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402/2009		BURSTING PRESSURE ISO 1402/2009		VACUUM RESISTANCE ISO 7233/2009		BENDING RADIUS ISO 1746/2000	
mm	inch	+0.04/ 0.02 mm	+1.57x10 ⁻³ / -7.87x10 ⁻⁴ inch	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F	mm	inch
25	1	2.36	0.091	2.27	32.92	6.81	98.75	0.66	9.57	38	1.50
50	1 31/32	2.36	0.091	1.80	26.10	5.4	78.3	0.52	7.54	75	2.95
75	2 61/64	2.70	0.106	1.42	20.59	4.26	61.77	0.40	5.8	113	4.45
100	3 15/16	3.00	0.118	1.130	16.39	3.39	49.16	0.31	4.5	151	5.94
130	5 1/8	3.00	0.118	0.85	12.33	2.55	36.98	0.23	3.34	196	7.72
200	7 7/8	3.20	0.126	0.45	6.53	1.35	19.58	0.12	1.74	302	11.89
300	11 13/16	3.20	0.126	0.18	2.61	0.54	7.83	0.04	0.58	452	17.80

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

VENA® MILTECH

INNER DIAMETER		WALL THICKNESS		WORKING PRESSURE ISO 1402		BURSTING PRESSURE 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	5.50	0.20	27.3	396	81.8	1187
13	1/2			21.4	310	64.1	930
19	3/4			18.5	268	55.4	804
25	1			16.4	238	49.1	713
32	1 1/4			14.5	210	43.5	631
38	1 1/2			13.2	191	39.6	574
45	1 3/4			11.9	173	35.7	518
51	2			10.9	159	32.8	476
63	2 1/2			9.3	135	28.0	406
76	3			7.9	115	23.7	344
89	3 1/2			6.6	96	19.8	287
102	4			5.6	82	16.9	246

*Other diameters can also be manufactured. Please consult.

** Pressure data is noted at ambient temperature. Pressure values should be reduced by 20% for each increase of 100°C (21°F).

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