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ISO 14001



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CAT.17 ENG rev.01

JCS, DESIGN & PUBLISHER, 93 786 T2 64

SILICONE HOSES

FOR INDUSTRIAL VEHICLES



venAir

TECHNOSIL

SILICONE HOSES WITH POLYESTER REINFORCEMENTS FOR HEATING AND COOLING SYSTEMS

STRAIGHT HOSE

VENA SIL 200/VENA SIL 240



Material: Silicone VMQ (Vinyl Methyl Quality).

Textile reinforcement: SIL 200: 3 ply polyester net.

SIL 240: 4 ply polyester net.

Temperature range: -60° to +180°C.

Standard wall thickness: SIL 200: 4,2mm (+1/-0.5mm).

SIL 240: 5,2mm (+1/-0.5mm).

Length: From 1 to 4m. Can be cut to smaller lengths upon the request of the customer.

Plain outer and inner appearance. Suitable for use in straight lengths, with no bending requirements. Can also be supplied with another type of textile reinforcement (NOMEX⁽¹⁾, Glass fibre,...).

(1) NOMEX is a registered trademark from DuPont.

Diameter (mm)	Working Pressure (bar)		Bursting Pressure (bar)		Diameter (mm)	Working Pressure (bar)		Bursting Pressure (bar)	
	SIL 200	SIL 240	SIL 200	SIL 240		SIL 200	SIL 240	SIL 200	SIL 240
6	16,17	21,33	48,5	64	48	3,60	4,67	10,8	14
8	14,03	17,33	42,1	52	50	3,47	4,67	10,4	14
10	11,50	14,67	34,5	44	51	3,43	4,67	10,3	14
13	9,70	12,00	29,1	36	53	3,33	4,33	10	13
16	8,27	10,33	24,8	31	55	3,23	4,33	9,7	13
18	7,50	9,67	22,5	29	57	3,13	4,33	9,4	13
19	7,27	9,33	21,8	28	60	3,03	4,00	9,1	12
22	6,17	8,33	18,5	25	62	2,97	4,00	8,9	12
25	5,90	7,67	17,7	23	63	2,93	4,00	8,8	12
28	5,40	7,00	16,2	21	65	2,83	3,67	8,5	11
30	5,13	6,67	15,4	20	70	2,70	3,67	8,1	11
32	4,90	6,33	14,7	19	76	2,50	3,33	7,5	10
35	4,57	6,00	13,7	18	80	2,30	3,33	6,9	10
38	4,30	5,67	12,9	17	83	2,17	3,33	6,5	10
40	4,13	5,33	12,4	16	90	1,90	3,00	5,7	9
44	3,83	5,00	11,5	15	100	1,67	2,67	5	8
45	3,77	5,00	11,3	15					

STRAIGHT REDUCER

Material: Silicone VMQ (Vinyl Methyl Quality).

Textile reinforcement: 3 ply polyester net.

Temperature range: -60° to +180°C.

Standard wall thickness: 4,2mm (+1/-0.5mm).

Length (mm): 100 / 150.

Plain outer and inner appearance.



Diameter (mm)	Length (mm)	Diameter (mm)	Length (mm)	Diameter (mm)	Length (mm)	Diameter (mm)	Length (mm)
18 / 13 19 / 16 22 / 18 22 / 19 28 / 22 28 / 26 32 / 26 32 / 28 35 / 28	↑ 100 150 ↓	36 / 26 36 / 32 38 / 22 38 / 25 38 / 28 38 / 32 38 / 36 40 / 35 45 / 32	↑ 100 150 ↓	45 / 38 51 / 38 51 / 45 54 / 51 60 / 50 63 / 51 67 / 51 70 / 50 70 / 57	↑ 100 150 ↓	70 / 60 76 / 51 76 / 63 76 / 67 80 / 70 90 / 80 102 / 76 127 / 100	↑ 100 150 ↓

ELBOW 90° / 45° / 135°

Material: Silicone VMQ (Vinyl Methyl Quality).

Textile reinforcement: 3 ply polyester net.

Temperature range: -60° to +180°C.

Standard wall thickness: 4,2mm
(+1/-0.5mm).

Length of legs (mm):

100x100 / 150x150 / 200x200.

Plain outer and inner appearance.



45°



90°



135°

Diameter (mm)	Length (mm)	Diameter (mm)	Length (mm)	Diameter (mm)	Length (mm)
6	100x100 150x150 200x200	35	100x100 150x150 200x200	60	100x100 150x150 200x200
8		38		62	
10		40		63	
13		44		65	
16		45		70	
19		48		75	
22		50		76	
25		51		80	
28		53		85	
30		55		90	
32		57		95	
				100	

REDUCER ELBOW 90°

Material: Silicone VMQ (Vinyl Methyl Quality).

Textile reinforcement: 3 ply polyester net.

Temperature range: -60° to +180°C.

Standard wall thickness: 4,2mm (+1/-0.5mm).

Length of legs (mm): 100x100 / 150x150.

Plain outer and inner appearance.



Diameter (mm)	Length (mm)	Diameter (mm)	Length (mm)
25 / 19	100x100 150x150	60 / 50	100x100 150x150
32 / 25		63 / 51	
38 / 25		70 / 50	
38 / 32		70 / 60	
38 / 35		76 / 51	
51 / 45		76 / 63	

VENA TECHNOSIL SAE J20R3 Class A (HEATER HOSE)



Material: Silicone VMQ (Vinyl Methyl Quality).

Textile reinforcement: polyester braiding

Temperature range: -60°C a +180°C

Wall thickness: variable, depending on diameter.

Length: standard rolls of 76,2m (250 ft.) delivered in a wood spool. Other lengths are possible upon request.

Extruded hose with plain outer and inner appearance. Meets the requirements of SAE J20R3 Class A standard for cooling systems in the automotive industry.

Inner Diameter (mm)	Outer diameter (mm)	Working pressure (bar) water at 20°C	Bursting pressure (bar) water at 20°C	Vacuum pressure (kPa)
6,3	13,2	9,60	28,80	95
7,9	15,0	8,80	26,50	95
9,5	16,6	7,70	23,00	95
12,7	20,3	6,80	20,30	90
15,8	24,5	5,90	17,80	70
19	27,9	5,10	15,20	70
22	31,3	5,00	15,00	70
25,4	34,5	4,90	14,80	55
28	38,0	4,40	13,20	20
32	43,0	3,90	11,80	16

SILICONE HOSES WITH INTERNAL SPIRAL FOR HEATING AND COOLING SYSTEMS

VENA SIL 700 V

HIGHLY FLEXIBLE PLAIN SILICONE HOSE

Material: Silicone VMQ (Vinyl Methyl Quality).

Structure: Spiral steel wire between 3 sheets of polyester fabric covered in blue silicone.

Temperature range: -60° to +180°C.

Length: From 1 to 4 m. Can be cut to smaller lengths upon request.

Main characteristic: High flexibility due to the wire spiral. Plain outer and inner appearance.

Suitable for use where you require a small bending radius.



Diameter (mm)	Working Pressure (Bar)	Bursting Pressure (Bar)	Bending Radius (mm)
10	12,45	37	69
13	11,30	34	75
16	10,39	31	82
18	9,87	30	87
19	9,64	29	90
22	8,99	27	98
25	8,44	25	107
28	7,94	24	116
30	7,64	23	123
35	6,96	21	143
38	6,60	20	156
40	6,38	19	165

Diameter (mm)	Working Pressure (Bar)	Bursting Pressure (Bar)	Bending Radius (mm)
45	5,86	18	191
48	5,58	17	208
51	5,32	16	227
55	4,98	15	255
60	4,60	14	294
63	4,39	13	321
70	3,93	12	394
76	3,57	11	468
80	3,34	10	526
85	3,08	9	608
90	2,83	8	703
100	2,37	7	939

VENA SIL 800

HIGHLY FLEXIBLE CONVOLUTED SILICONE HOSE

Material: Silicone VMQ (Vinyl Methyl Quality).

Structure: Spiral Steel wire between 3 sheets of polyester fabric covered in blue silicone.

Temperature range: -60° to +180°C.

Length: From 1 to 4 m. Can be cut to smaller lengths upon request.

Main characteristic: High flexibility due to the wire spiral. Corrugated outer and inner appearance. Suitable for use where you require a very small bending radius.



Diameter (mm)	Working Pressure (Bar)	Bursting Pressure (Bar)	Bending Radius (mm)
10	10,48	31	46
16	8,63	26	49
18	8,17	25	51
25	6,89	21	59
28	6,44	19	64
30	6,17	19	67
32	5,92	18	71
38	5,24	16	84
40	5,04	15	89
42	4,85	15	94
45	4,58	14	103
50	4,17	13	119

Diameter (mm)	Working Pressure (Bar)	Bursting Pressure (Bar)	Bending Radius (mm)
51	4,09	12	122
52	4,01	12	125
53	3,94	12	129
55	3,79	11	136
60	3,45	10	156
63	3,26	10	168
70	2,85	9	200
76	2,53	8	231
80	2,33	7	253
90	1,86	6	313
100	1,45	4	380

SILICONE PIECES FOR TURBOCHARGER SYSTEMS - INTERCOOLER

VENA SIL TURBO/ TURBOLOADER

External material: Silicone VMQ (Vinyl Methyl Quality).

Internal material: Silicone FVMQ (Fluor Vinyl Methyl Quality).

Textile reinforcement: NOMEX⁽¹⁾.

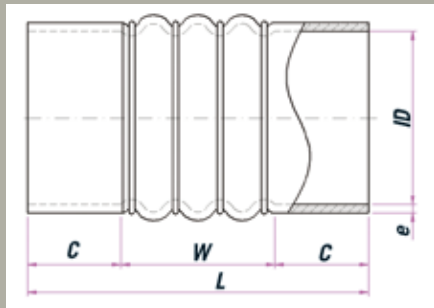
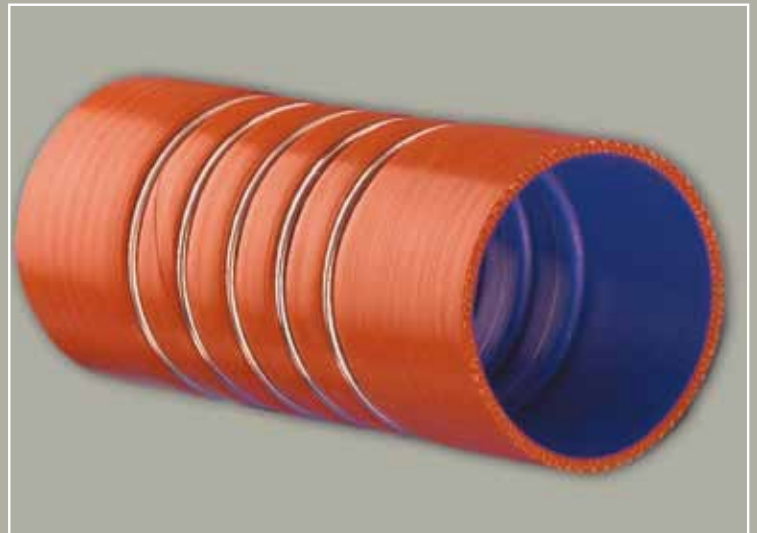
Temperature range: -60° to + 200°C (up to 220°C for short periods of time).

Standard length: All of our standard or customized products can be produced with this option. Coarrugated compensators are available (See table below)

Application: Specifically used in turbocharger systems for industrial vehicles, due to its high capacity to withstand hydrocarbons and/or oil particles in the cooling pressurised air.

Alternative: This product is also available without the FVMQ (Fluor Vinyl Methyl Quality) silicone, instead standard VMQ (Vinyl Methyl Quality) silicone is used.

(1) NOMEX is a registered trademark of Dupont.



Available TURBOLOADERS (consult for other dimensions)

ID Diameter (mm)	Number of Corrugate	Number of Rings	W Length of Corrugate (mm)	C Length from one end to the first Ring (mm)	L Total Length (mm)
50	2	3	64	48	160
50	4	5	114	43	200
60	2	3	64	48	160
60	4	5	114	43	200
65	3	4	88	56	200
70	2	3	64	48	160
70	4	5	114	43	200
76	2	3	64	48	160
76	4	5	114	43	200
80	3	4	88	56	200
80	6	7	164	68	300
85	3	4	88	56	200
85	6	7	164	68	300
89	1	2	38	31	100
89	2	3	64	48	160
89	4	5	114	48	210
89	5	6	138	56	250
89	6	7	164	68	300
95	4	5	130	40	210
95	6	7	164	68	300
100	1	2	38	31	100
100	2	3	64	48	160
100	4	5	114	48	210
100	5	6	138	56	250
100	6	7	164	68	300
114	3	4	88	56	200

SPECIAL APPLICATIONS

VENA SIL 200 R/A

OIL-RESISTANT SILICONE HOSE

External material: Silicone VMQ (Vinyl Methyl Quality).

Internal material: Silicone R/A (Oil-Resistant).

Textile reinforcement: 3 ply polyester net.

Temperature range: -60° to +180°C.

Standard wall thickness: 4,2mm (+1/-0.5mm).

Length: From 1 to 4 m. Can be cut to smaller lengths at the request of the customer.

Plain outer and inner appearance. Suitable for use in straight lengths, with no bending requirements.

Application: Suitable for engine oils and other mineral oils up to +150°C service temperature.



Diameter (mm)	Working Pressure (bar)	Bursting Pressure (bar)	Diameter (mm)	Working Pressure (bar)	Bursting Pressure (bar)
6	16,17	48,5	48	3,60	10,8
8	14,03	42,1	50	3,47	10,4
10	11,50	34,5	51	3,43	10,3
13	9,70	29,1	53	3,33	10
16	8,27	24,8	55	3,23	9,7
18	7,50	22,5	57	3,13	9,4
19	7,27	21,8	60	3,03	9,1
22	6,17	18,5	62	2,97	8,9
25	5,90	17,7	63	2,93	8,8
28	5,40	16,2	65	2,83	8,5
30	5,13	15,4	70	2,70	8,1
32	4,90	14,7	76	2,50	7,5
35	4,57	13,7	80	2,30	6,9
38	4,30	12,9	83	2,17	6,5
40	4,13	12,4	90	1,90	5,7
44	3,83	11,5	100	1,67	5
45	3,77	11,3			

VENA SIL GLASS

STRAIGHT SILICONE HOSE REINFORCED WITH GLASS FIBRE FOR HIGH TEMPERATURES

Material: High temperature resistant silicone.

Textile reinforcement: 3 ply of glass fibre.

Temperature range: -60 to + 235°C (up to 250°C for short periods of time).

Standard wall thickness: 2,8mm (+1/-0.5mm).

Length: From 1 to 4 m. Can be cut to smaller lengths at the request of the customer.

Plain outer and inner appearance. Suitable for use in straight lengths, with no bending requirements.

It is possible to produce any special shaped hose (e.g. elbow, reducer, etc.) at the request of the customer.



HIGH TEMPERATURE RESISTANT ALU PROTECCIONS

Application: Special aluminum coated fiberglass designed to protect a specific area or the whole silicone hose where focused high temperatures are present.



BESPOKE HOSES

NON-STANDARD SILICONE HOSES

We are able to design and manufacture specially shaped hoses to meet your specific requirements.

