Technical Datasheet

Vena® SIL 700/V

Ref: DO 03.10 FT 40. Rev. 13
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Applications

This hose is recommended for heating and cooling systems in vehicles and in the industrial sector and also for the transport of high temperatures fluids in general industry where a certain degree of flexibility is required.

These hoses are suitable for transporting liquid or semi-liquid by impulsion or suction, since their design could resist pressure or vacuum.

Properties

- Not affected by anti-freeze or antirust liquids.
- Highly resistant to hardening with very good compression characteristics.
- Smooth inner and outer appearance, and blue color.
- Excellent resistance to thermal aging and oxidizing agents (oxygen, ozone, UV).
- Operational temperature range from -50°C (-122 F) to +180°C (356 F), it may reach up to 200°C (392 F) during short periods of time.
- The vacuum resistance for this hose is 0.80 bar (11.60 psi).

Construction

- This reference is manufactured with two polyester fabric reinforcements and encapsulated coopered steel spring wire.
  Alternatives:

  SIL 700/V RA: The inner layer could be made in R/A silicone, that could resist oil drops in this case the inner layer is brown red colored.

  SIL 700/V FVMQ: The inner layer could be made in black FVMQ silicone, that has high capacity to withstand hydrocarbons and oil particles.

  SIL 700/V FKM: The inner layer could be made in black FKM, that it has a higher resistance to oil particles and/or hydrocarbons in suspension.

  SIL 700/V PLASTIC: Manufactured with a plastic spring wire, which avoids oxidation and possible accidents for operators during cutting or manipulation.

Limitations

Respect the bending radius and 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

- 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 ISO 1402		Bursting Pressure ISO 1402		Bending radius ISO 1746	
mm	*inch*	*+1/ -0.5 mm*	*+0.04/ -0.02 inch*	*Bar at 20ºC*	*Psi at 68ºF*	*Bar at 20ºC*	*Psi at 68ºF*	*mm*	*inch*
6	1/4	5.00	0.20	18,8	272,9	56,4	818,7	21	0,8
8	5/16	5.00	0.20	18,1	263,0	54,4	789,0	24	0,9
10	3/8	5.00	0.20	17,5	253,3	52,4	760,0	28	1,1
13	1/2	5.00	0.20	16,5	239,3	49,5	717,8	34	1,3
16	5/8	5.00	0.20	15,6	225,7	46,7	677,2	41	1,6
18	5/7	5.00	0.20	15,0	217,0	44,9	651,0	46	1,8
19	3/4	5.00	0.20	14,7	212,7	44,0	638,2	49	1,9
22	7/8	5.00	0.20	13,8	200,2	41,4	600,7	57	2,2
25	1	5.00	0.20	13,0	188,3	38,9	564,8	66	2,6
28	1 1/8	5.00	0.20	12,2	176,8	36,6	530,5	76	3,0
30	1 3/16	5.00	0.20	11,7	169,5	35,1	508,5	82	3,2
35	1 3/8	5.00	0.20	10,5	152,2	31,5	456,5	101	4,0
38	1 1/2	5.00	0.20	9,8	142,5	29,5	427,4	113	4,4
40	1 9/16	5.00	0.20	9,4	136,3	28,2	408,9	121	4,8
45	1 3/4	5.00	0.20	8,4	121,9	25,2	365,7	143	5,6
48	1 7/8	5.00	0.20	7,9	114,0	23,6	341,9	158	6,2
51	2	5.00	0.20	7,3	106,6	22,0	319,7	173	6,8
55	2 1/8	5.00	0.20	6,7	97,5	20,2	292,4	193	7,6
60	2 3/8	5.00	0.20	6,0	87,5	18,1	262,4	221	8,7
63	2 1/2	5.00	0.20	5,7	82,1	17,0	246,4	239	9,4
70	2 3/4	5.00	0.20	4,9	71,8	14,8	215,3	283	11,1
76	3	5.00	0.20	4,5	65,2	13,5	195,5	324	12,7
80	3 1/8	5.00	0.20	4,3	61,9	12,8	185,7	352	13,9
85	3 1/3	5.00	0.20	4,1	59,2	12,2	177,5	390	15,3
90	3 1/2	5.00	0.20	4,0	57,9	12,0	173,7	429	16,9
100	4	5.00	0.20	4,1	59,7	12,3	179,1	513	20,2