



Applications

These kind of flexible hoses are specially recommended in gas conductions at high temperatures (for example. in brake cooling systems), engine exhaust fume extraction from a point immediately close to the ejection area. Also recommended for use as electric cable protection crossing hot spots or sheathed pipes where air or hot water circulation

Limitations

Respect the work pressure established values.

Regulations

The fiberglass covered with silicone used is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS).

Properties

- Excellent flexibility during the assembly process.
- High heat resistance, especially at high temperature gases.
- There is the possibility to manufacture the cuffs end in inner and outer smooth appearance, a good alternative to get and easier hose installation.
- Excellent resistance to thermal aging and oxidizing agents (oxygen, ozone, UV).
- Operational temperature range from -55°C (-67 F) to +260°C (500 F), it may reach up to 300°C (572 F) during short periods of time.
- The standard manufacturing length is 4 meters long (13.12 ft.), although it can be manufactured in 6m long (19.69 ft) in some diameters.

Construction

- The reference HTD is manufactured with two plies of fiberglass covered with high temperature resistance red silicone and coated with steel wire sandwiched between the two fiberglass layers.

- The reference HT is manufactured with one ply of fiberglass covered with high temperature resistance red silicone with steel wire reinforcement visible inside the tube.

Technical Specifications

The HTD Reference:

Inner Diameter		Wall thickness		Working Pressure ISO 1402/2009		Bursting Pressure ISO 1402/2009		Vacuum Resistance ISO 7233/2006		Bending radius ISO 1746/2000	
mm	inch	+0.4 -0.2 mm	+0.0157 -0.0079 inch	Bar at 20°C	Psi at 68 F	Bar a 20°C	Psi a 68 F	Bar a 20°C	Psi a 68 F	mm	inch
22	7/8	2.16	0.085	2.33	33.79	6.99	101.38	0.68	9.86	33	1.30
25	1	2.16	0.085	2.27	32.87	6.80	98.60	0.66	9.60	38	1.49
26	1 1/64	2.16	0.085	2.25	32.56	6.74	97.69	0.66	9.50	39	1.55
27	1 1/16	2.16	0.085	2.22	32.26	6.67	96.78	0.65	9.41	41	1.61
28	1 7/64	2.16	0.085	2.20	31.96	6.61	95.89	0.64	9.32	42	1.67
29	1 1/8	2.16	0.085	2.19	31.78	6.58	95.35	0.64	9.26	43	1.70
30	1 3/16	2.16	0.085	2.16	31.37	6.49	94.12	0.63	9.13	45	1.79
32	1 17/64	2.16	0.085	2.12	30.80	6.37	92.39	0.62	8.95	48	1.90

Technical Datasheet



Vena® HTD
Vena® HT

Ref: DO 03.10 FT 76, Rev. 07

Date: 26/10/2022

Inner Diameter		Wall thickness		Working Pressure ISO 1402/2009		Bursting Pressure ISO 1402/2009		Vacuum Resistance ISO 7233/2006		Bending radius ISO 1746/2000	
mm	inch	+0.4 -0.2 mm	+0.0157 -0.0079 inch	Bar at 20°C	Psi at 68 F	Bar a 20°C	Psi a 68 F	Bar a 20°C	Psi a 68 F	mm	inch
34	1 11/32	2.16	0.085	2.08	30.23	6.25	90.68	0.61	8.77	51	2.02
35	1 3/8	2.16	0.085	2.07	29.95	6.20	89.84	0.60	8.69	53	2.08
38	1 1/2	2.16	0.085	2.01	29.12	6.03	87.37	0.58	8.43	57	2.26
39	1 35/64	2.16	0.085	1.99	28.85	5.97	86.56	0.58	8.34	59	2.32
40	1 37/64	2.16	0.085	1.97	28.59	5.91	85.76	0.57	8.26	60	2.38
42	1 21/32	2.16	0.085	1.94	28.06	5.81	84.18	0.56	8.10	63	2.50
43	1 11/16	2.16	0.085	1.92	27.80	5.75	83.40	0.55	8.02	65	2.56
44	1 47/64	2.16	0.085	1.90	27.54	5.70	82.63	0.55	7.94	66	2.62
45	1 49/64	2.16	0.085	1.88	27.29	5.65	81.87	0.54	7.86	68	2.68
46	1 13/16	2.16	0.085	1.86	27.04	5.59	81.11	0.54	7.78	69	2.74
47	1 55/64	2.16	0.085	1.85	26.79	5.54	80.36	0.53	7.70	71	2.79
48	1 57/64	2.16	0.085	1.83	26.54	5.49	79.61	0.53	7.63	72	2.85
50	1 31/32	2.16	0.085	1.80	26.05	5.39	78.15	0.52	7.48	75	2.97
51	2 1/64	2.16	0.085	1.78	25.81	5.34	77.42	0.51	7.40	77	3.03
52	2 3/64	2.16	0.085	1.76	25.57	5.29	76.71	0.51	7.33	79	3.09
53	2 3/32	2.16	0.085	1.75	25.33	5.24	76.00	0.50	7.25	80	3.15
54	2 1/8	2.16	0.085	1.73	25.10	5.19	75.29	0.50	7.18	82	3.21
55	2 11/64	2.16	0.085	1.71	24.87	5.14	74.60	0.49	7.11	83	3.27
56	2 13/64	2.16	0.085	1.70	24.64	5.10	73.91	0.49	7.04	85	3.33
57	2 15/64	2.16	0.085	1.68	24.41	5.05	73.22	0.48	6.97	86	3.39
59	2 21/64	2.16	0.085	1.65	23.96	4.96	71.87	0.47	6.83	89	3.51
60	2 23/64	2.16	0.085	1.64	23.74	4.91	71.21	0.47	6.76	91	3.57
62	2 7/16	2.16	0.085	1.61	23.30	4.82	69.89	0.46	6.63	94	3.68
63	2 31/64	2.50	0.098	1.59	23.08	4.78	69.25	0.45	6.56	95	3.74
64	2 1/2	2.50	0.098	1.58	22.98	4.75	68.93	0.45	6.53	96	3.77
65	2 9/16	2.50	0.098	1.56	22.66	4.69	67.97	0.44	6.43	98	3.86
69	2 23/32	2.50	0.098	1.51	21.83	4.52	65.49	0.43	6.18	104	4.10
70	2 49/64	2.50	0.098	1.49	21.63	4.47	64.88	0.42	6.12	106	4.16
73	2 7/8	2.50	0.098	1.45	21.03	4.35	63.10	0.41	5.94	110	4.34
75	2 61/64	2.50	0.098	1.42	20.64	4.27	61.93	0.40	5.82	113	4.46
76	3	2.50	0.098	1.41	20.45	4.23	61.36	0.40	5.76	115	4.51
80	3 5/32	2.80	0.110	1.36	19.71	4.08	59.12	0.38	5.54	121	4.75
83	3 17/64	2.80	0.110	1.32	19.16	3.97	57.49	0.37	5.37	125	4.93
85	3 23/64	2.80	0.110	1.30	18.81	3.89	56.43	0.36	5.27	128	5.05
87	3 7/16	2.80	0.110	1.27	18.46	3.82	55.39	0.36	5.16	131	5.17
90	3 35/64	2.80	0.110	1.24	17.96	3.72	53.87	0.35	5.01	136	5.35
95	3 47/64	2.80	0.110	1.18	17.14	3.55	51.42	0.33	4.77	143	5.64
100	3 15/16	2.80	0.110	1.13	16.36	3.39	49.09	0.31	4.53	151	5.94

Technical Datasheet

Vena® HTD
Vena® HT

Ref: DO 03.10 FT 76. Rev. 07

Date: 26/10/2022

Inner Diameter		Wall thickness		Working Pressure ISO 1402/2009		Bursting Pressure ISO 1402/2009		Vacuum Resistance ISO 7233/2006		Bending radius ISO 1746/2000	
mm	inch	+0.4 -0.2 mm	+0.0157 -0.0079 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
101	4	2.80	0.110	1.12	16.21	3.35	48.63	0.31	4.49	152	6.00
102	4 1/64	2.80	0.110	1.11	16.06	3.32	48.18	0.31	4.44	154	6.06
105	4 1/8	2.80	0.110	1.08	15.62	3.23	46.86	0.30	4.31	158	6.24
110	4 21/64	2.80	0.110	1.03	14.94	3.09	44.81	0.28	4.06	166.00	6.54
114	4 1/2	2.80	0.110	1.03	14.91	3.08	44.73	0.28	4.10	166	6.53
115	4 17/32	2.80	0.110	0.99	14.32	2.96	42.97	0.27	3.93	172	6.79
120	4 23/32	2.80	0.110	0.98	14.23	2.94	42.70	0.27	3.90	173	6.83
127	5	2.80	0.110	0.94	13.59	2.81	40.76	0.26	3.71	181	7.13
130	5 1/8	2.80	0.110	0.88	12.73	2.63	38.19	0.24	3.46	192	7.54
134	5 9/32	2.80	0.110	0.85	12.38	2.56	37.14	0.23	3.36	196	7.72
140	5 1/2	2.80	0.110	0.82	11.93	2.47	35.78	0.22	3.23	202	7.96
150	5 29/32	2.80	0.110	0.78	11.28	2.33	33.84	0.21	3.04	211	8.31
152	6	2.80	0.110	0.71	10.28	2.13	30.83	0.19	2.75	226	8.91
160	6 19/64	3.00	0.118	0.65	9.36	1.94	28.09	0.17	2.49	241	9.50
170	6 11/16	3.00	0.118	0.59	8.53	1.77	25.60	0.16	2.25	256	10.09
180	7 3/32	3.00	0.118	0.54	7.78	1.61	23.33	0.14	2.04	271	10.69
200	7 7/8	3.00	0.118	0.45	6.46	1.34	19.37	0.12	1.67	302	11.87
203	8	3.00	0.118	0.43	6.28	1.30	18.83	0.11	1.62	306	12.05
220	8 21/32	3.00	0.118	0.37	5.36	1.11	16.08	0.09	1.37	332	13.06
250	9 27/32	3.00	0.118	0.28	4.06	0.84	12.17	0.07	1.01	377	14.84
254	10	3.00	0.118	0.27	3.91	0.81	11.72	0.07	0.97	383	15.08
300	11 13/16	3.00	0.118	0.18	2.55	0.53	7.64	0.04	0.61	452	17.81

The HT Reference:

Inner Diameter		Wall thickness		Working Pressure ISO 1402/2009		Bursting Pressure ISO 1402/2009		Vacuum Resistance ISO 7233/2006		Bending radius ISO 1746/2000	
mm	inch	+0.4 -0.2 mm	+0.0157 -0.0079 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
22	7/8	1.56	0.061	1,80	26,11	5,40	78,32	0,55	7,98	30	1,18
25	1	1.56	0.061	1,76	25,53	5,28	76,59	0,54	7,77	34	1,36
26	1 1/64	1.56	0.061	1,75	25,31	5,24	75,94	0,53	7,69	36	1,41
27	1 1/16	1.56	0.061	1,73	25,10	5,19	75,31	0,52	7,60	37	1,46
28	1 7/64	1.56	0.061	1,72	24,89	5,15	74,68	0,52	7,52	38	1,51
29	1 1/8	1.56	0.061	1,71	24,77	5,12	74,30	0,52	7,47	39	1,55
30	1 3/16	1.56	0.061	1,69	24,48	5,06	73,44	0,51	7,36	41	1,62
32	1 17/64	1.56	0.061	1,66	24,07	4,98	72,21	0,50	7,21	44	1,73
34	1 11/32	1.56	0.061	1,63	23,67	4,90	71,01	0,49	7,05	46	1,83