

Vena® MTD Vena® MT

Ref: DO 03.10 FT 059. Rev. 07
Date: 20/06/2017



Limitations

Respect the bending radius and work pressure established values.

Regulations

The fiber glass covered with neoprene used to manufacture this product is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS).

Applications

These hoses are specially recommended in gas conduction at medium temperatures, engine exhaust fume extraction, electronic units cooling and welding gas aspiration

Properties

- This reference could be manufacture with cuffed ends.
- Excellent flexibility and aging resistance
- Operational temperature range from -55°C (-67 F) to +125°C (257 F), it may reach up to 150°C (302 F) during short periods of time.
- The standard manufacturing length is 4 meters long (13.12 ft.), but in specific diameters a length of 6 meters (19.69 ft) can be manufactured.

Construction

The Vena® MTD is manufactured with two fibber glass textile reinforcements covered with Neoprene rubber compound in black colour and coated with steel wire sandwiched between the two Neoprene layers.

The Vena® MT is manufactured with one fibber glass textile reinforcement covered with Neoprene rubber compound in black colour and coated with steel wire visible inside.

Technical Specifications

Contact your sales for more information
info@venair.com – www.venair.com

For the MTD 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	
<i>mm</i>	<i>inch</i>	<i>+0.04/-0.02 mm</i>	<i>+1.57x10⁻³/ -7.87x10⁻⁴ inch</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>mm</i>	<i>inch</i>
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
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

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<i>mm</i>	<i>inch</i>	<i>+0.04/ -0.02 mm</i>	<i>+1.57x10⁻³/ -7.87x10⁻⁴ inch</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>mm</i>	<i>inch</i>
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
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	14.91	3.08	44.73	0.28	4.10	166	6.53
114	4 1/2	2.80	0.110	0.99	14.32	2.96	42.97	0.27	3.93	172	6.79
115	4 17/32	2.80	0.110	0.98	14.23	2.94	42.70	0.27	3.90	173	6.83
120	4 23/32	2.80	0.110	0.94	13.59	2.81	40.76	0.26	3.71	181	7.13
127	5	2.80	0.110	0.88	12.73	2.63	38.19	0.24	3.46	192	7.54
130	5 1/8	2.80	0.110	0.85	12.38	2.56	37.14	0.23	3.36	196	7.72
134	5 9/32	2.80	0.110	0.82	11.93	2.47	35.78	0.22	3.23	202	7.96
140	5 1/2	2.80	0.110	0.78	11.28	2.33	33.84	0.21	3.04	211	8.31
150	5 29/32	2.80	0.110	0.71	10.28	2.13	30.83	0.19	2.75	226	8.91
152	6	2.80	0.110	0.69	10.05	2.08	30.15	0.19	2.68	230	9.05
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

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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	1.56	0.061	1,76	25,53	5,28	76,59	0,54	7,77	34,47	1,36
26	1 1/64	1.56	0.061	1,75	25,31	5,24	75,94	0,53	7,69	35,81	1,41
27	1 1/16	1.56	0.061	1,73	25,10	5,19	75,31	0,52	7,60	37,14	1,46
28	1 7/64	1.56	0.061	1,72	24,89	5,15	74,68	0,52	7,52	38,48	1,51
29	1 1/8	1.56	0.061	1,71	24,77	5,12	74,30	0,52	7,47	39,28	1,55
30	1 3/16	1.56	0.061	1,69	24,48	5,06	73,44	0,51	7,36	41,15	1,62
32	1 17/64	1.56	0.061	1,66	24,07	4,98	72,21	0,50	7,21	43,82	1,73
34	1 11/32	1.56	0.061	1,63	23,67	4,90	71,01	0,49	7,05	46,49	1,83
35	1 3/8	1.56	0.061	1,62	23,47	4,86	70,42	0,48	6,98	47,83	1,88
38	1 1/2	1.56	0.061	1,58	22,89	4,74	68,66	0,47	6,76	51,84	2,04
39	1 35/64	1.56	0.061	1,57	22,70	4,70	68,09	0,46	6,69	53,17	2,09
40	1 37/64	1.56	0.061	1,55	22,51	4,66	67,52	0,46	6,62	54,51	2,15
42	1 21/32	1.56	0.061	1,53	22,13	4,58	66,39	0,45	6,48	57,18	2,25
43	1 11/16	1.56	0.061	1,51	21,95	4,54	65,84	0,44	6,41	58,52	2,30
44	1 47/64	1.56	0.061	1,50	21,76	4,50	65,29	0,44	6,34	59,85	2,36
45	1 49/64	1.56	0.061	1,49	21,58	4,46	64,74	0,43	6,27	61,19	2,41
46	1 13/16	1.56	0.061	1,48	21,40	4,43	64,20	0,43	6,20	62,53	2,46
47	1 55/64	1.56	0.061	1,46	21,22	4,39	63,66	0,42	6,14	63,86	2,51
48	1 57/64	1.56	0.061	1,45	21,04	4,35	63,13	0,42	6,07	65,20	2,57
50	1 31/32	1.56	0.061	1,43	20,69	4,28	62,08	0,41	5,94	67,87	2,67
51	2 1/64	1.56	0.061	1,42	20,52	4,25	61,56	0,41	5,88	69,21	2,72
52	2 3/64	1.56	0.061	1,40	20,35	4,21	61,04	0,40	5,82	70,54	2,78
53	2 3/32	1.56	0.061	1,39	20,18	4,17	60,53	0,40	5,76	71,88	2,83
54	2 1/8	1.56	0.061	1,38	20,01	4,14	60,03	0,39	5,70	73,21	2,88
55	2 11/64	1.56	0.061	1,37	19,84	4,11	59,53	0,39	5,63	74,55	2,94
56	2 13/64	1.56	0.061	1,36	19,68	4,07	59,03	0,38	5,57	75,89	2,99
57	2 15/64	1.56	0.061	1,35	19,51	4,04	58,53	0,38	5,52	77,22	3,04
59	2 21/64	1.56	0.061	1,32	19,19	3,97	57,56	0,37	5,40	79,89	3,15
60	2 23/64	1.56	0.061	1,31	19,03	3,94	57,08	0,37	5,34	81,23	3,20
62	2 7/16	1.56	0.061	1,29	18,71	3,87	56,13	0,36	5,23	83,90	3,30
63	2 31/64	1.90	0.075	1,28	18,55	3,84	55,66	0,36	5,17	85,24	3,36
64	2 1/2	1.90	0.075	1,27	18,47	3,82	55,42	0,35	5,14	85,91	3,38
65	2 9/16	1.90	0.075	1,26	18,24	3,77	54,73	0,35	5,06	87,91	3,46
69	2 23/32	1.90	0.075	1,22	17,64	3,65	52,92	0,33	4,85	93,25	3,67
70	2 49/64	1.90	0.075	1,21	17,49	3,62	52,48	0,33	4,80	94,59	3,72
73	2 7/8	1.90	0.075	1,18	17,06	3,53	51,17	0,32	4,65	98,60	3,88
75	2 61/64	1.90	0.075	1,16	16,77	3,47	50,32	0,31	4,55	101,27	3,99

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<i>mm</i>	<i>inch</i>	<i>+0.04/ -0.02 mm</i>	<i>+1.57x10⁻³/ -7.87x10⁻⁴ inch</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>mm</i>	<i>inch</i>
76	3	1.90	0.075	1,15	16,63	3,44	49,90	0,31	4,50	102,61	4,04
80	3 5/32	1.90	0.075	1,11	16,08	3,33	48,25	0,30	4,31	107,95	4,25
83	3 17/64	1.90	0.075	1,08	15,68	3,24	47,05	0,29	4,18	111,96	4,41
85	3 23/64	2.20	0.087	1,06	15,42	3,19	46,27	0,28	4,09	114,63	4,51
87	3 7/16	2.20	0.087	1,05	15,17	3,14	45,50	0,28	4,00	117,30	4,62
90	3 35/64	2.20	0.087	1,02	14,79	3,06	44,36	0,27	3,87	121,31	4,78
95	3 47/64	2.20	0.087	0,98	14,18	2,93	42,54	0,25	3,67	127,99	5,04
100	3 15/16	2.20	0.087	0,94	13,60	2,81	40,79	0,24	3,48	134,67	5,30
101	4	2.20	0.087	0,93	13,48	2,79	40,45	0,24	3,44	136,01	5,35
102	4 1/64	2.20	0.087	0,92	13,37	2,77	40,11	0,24	3,41	137,34	5,41
105	4 1/8	2.20	0.087	0,90	13,04	2,70	39,11	0,23	3,30	141,35	5,56
110	4 21/64	2.20	0.087	0,86	12,50	2,59	37,50	0,22	3,13	148,03	5,83
114	4 1/2	2.20	0.087	0,83	12,06	2,49	36,17	0,21	2,99	153,77	6,05
115	4 17/32	2.20	0.087	0,83	11,99	2,48	35,96	0,20	2,97	154,71	6,09
120	4 23/32	2.20	0.087	0,79	11,49	2,38	34,48	0,19	2,81	161,39	6,35
127	5	2.20	0.087	0,75	10,84	2,24	32,51	0,18	2,61	170,74	6,72
130	5 1/8	2.20	0.087	0,73	10,57	2,19	31,70	0,17	2,53	174,75	6,88
134	5 9/32	2.20	0.087	0,70	10,22	2,11	30,66	0,17	2,42	180,09	7,09
140	5 1/2	2.20	0.087	0,67	9,72	2,01	29,15	0,16	2,27	188,11	7,41
150	5 29/32	2.20	0.087	0,62	8,93	1,85	26,80	0,14	2,04	201,47	7,93
152	6	2.20	0.087	0,60	8,76	1,81	26,27	0,14	1,99	204,68	8,06
160	6 19/64	2.40	0.094	0,57	8,21	1,70	24,64	0,13	1,83	214,83	8,46
170	6 11/16	2.40	0.094	0,52	7,55	1,56	22,66	0,11	1,65	228,19	8,98
180	7 3/32	2.40	0.094	0,48	6,94	1,44	20,83	0,10	1,48	241,55	9,51
200	7 7/8	2.40	0.094	0,40	5,87	1,21	17,61	0,08	1,19	268,27	10,56
203	8	2.40	0.094	0,39	5,72	1,18	17,17	0,08	1,16	272,28	10,72
220	8 21/32	2.40	0.094	0,34	4,96	1,03	14,89	0,07	0,96	294,99	11,61
250	9 27/32	2.40	0.094	0,27	3,86	0,80	11,57	0,05	0,70	335,07	13,19
254	10	2.40	0.094	0,26	3,73	0,77	11,19	0,05	0,67	340,41	13,40
300	11 13/16	2.40	0.094	0,17	2,53	0,52	7,60	0,03	0,41	401,87	15,82