



COMPUVAC INDUSTRIES, INC.

Flexible Metal Hose and Vacuum Welding

Metal Bellows Data Information

All Data is for standard applications at room temperature. Please contact our sales engineering if your application criteria are not listed in the table below.

Material: 321SS and 316LSS

Additional Material available upon request.

Additional nominal inside dimensions and wall thickness are available. Please contact our sales engineering.

CVI Thin Wall Bellows Specs

Diameter (inches)	Nom I.D. (inches)	Nom O.D. (inches)	Thickness inches	Pitch (inches)	WORKING PRESSURE 70 deg F	Static Bend Radius 70 deg F (inches)
0.75	0.795	1.12	0.006	0.138	VAC	1.2

1	0.992	1.39	0.006	0.146	VAC	1.5
1.5	1.484	2.13	0.006	0.18	VAC	1.75
2	1.96	2.57	0.006	0.19	VAC	2.25
2.5	2.45	3.15	0.006	0.22	VAC	2.75
3	3.074	3.97	0.008	0.295	VAC	3
4	3.948	4.97	0.008	0.315	VAC	3.5
6	5.854	6.9	0.010	0.452	VAC	5.25
8	8	9.29	.012	0.35	VAC	CALL FOR SPECS
10	10	11.25	.012	0.35	VAC	CALL FOR SPECS
12	12	13.25	.016	0.44	VAC	CALL FOR SPECS

1) Axial Deflection approximately +15% and -25% of Live Length. 2) Lateral deflection approximately 10% of Live Length.

CVI Flex Hose Medium Wall Specs

Nominal Hose ID (inches)	Nominal Hose OD (inches)	Thickness (inches)	STATIC		DYNAMIC		Burst Pressure 70 deg F (PSIG)
			Minimum Bend Radius (Inches)	Maximum Working Pressure 70 deg F (PSIG)	Minimum Bend Radius (Inches)	Maximum Working Pressure 70 deg F (PSIG)	
1/4"	0.39	0.008	0.35	390	N/A	N/A	N/A
1/4"	w/Braid	0.45	0.75	4800	5.5	2030	8700
3/8"	0.63	0.008	0.55	170	N/A	N/A	N/A
3/8"	w/Braid	0.7	1.14	3700	6	1450	6600
1/2"	0.73	0.008	0.83	130	N/A	N/A	N/A
1/2"	w/Braid	0.79	1.34	2900	4.88	1160	4600
.75"	1.11	0.008	1.26	32	N/A	N/A	N/A

.75"	w/Braid	1.18	2.09	1400	6.65	700	3100
1"	1.37	0.008	1.46	25	N/A	N/A	N/A
1"	w/Braid	1.43	2.52	970	7.68	580	2300
1.5"	2.06	0.01	2.16	15	N/A	N/A	N/A
1.5"	w/Braid	2.14	3.86	880	10.04	480	1800
2"	2.55	0.012	2.6	13	N/A	N/A	N/A
2"	w/Braid	2.65	4.75	920	11.54	480	1800
2.5"	3.19	0.012	3.15	10	N/A	N/A	N/A
2.5"	w/Braid	3.28	5.9	623	13.58	360	1400
3"	3.89	0.016	6	8	N/A	N/A	N/A
3"	w/Braid	4.01	7.5	280	16	290	1300

4"	4.83	0.016	10	5	N/A	N/A	N/A
4"	w/Braid	5.03	10	250	20	210	870
6"	6.99	0.018	15	3	N/A	N/A	N/A
6"	w/Braid	7.15	15	220	32	200	630

CVI Flex Hose Thick Wall Specs

Nominal Hose ID (Inches)	Nominal Hose OD (inches)	Thickness (inches)	STATIC		DYNAMIC		Burst Pressure 70 deg F (PSIG)
			Minimum Bend Radius (Inches)	Maximum Working Pressure 70 deg F (PSIG)	Minimum Bend Radius (Inches)	Maximum Working Pressure 70 deg F (PSIG)	
.75"	1.04	0.01	4	50	N/A	N/A	N/A
.75"	w/Braid	1.1	4	800	6	700	3200
1"	1.34	0.012	4.5	50	N/A	N/A	N/A

1"	w/Braid	1.42	4.5	750	7	580	3000
1.5"	1.89	0.015	4.5	20	N/A	N/A	N/A
1.5"	w/Braid	1.95	4.5	565	12	480	2260
2"	2.47	0.015	5	16	N/A	N/A	N/A
2"	w/Braid	2.58	5	500	13	480	2000
2.5"	3.33	0.016	5	10	N/A	N/A	N/A
2.5"	w/Braid	3.45	5	400	13	360	1600
3"	3.89	0.016	6	8	N/A	N/A	N/A
3"	w/Braid	4.01	7.5	280	16	290	1300
4"	4.83	0.016	10	5	N/A	N/A	N/A
4"	w/Braid	5.03	10	250	20	210	870

6"	6.99	0.018	15	3	N/A	N/A	N/A
6"	w/Braid	7.15	15	220	32	200	630
