



Flexible Solutions

**DURAFLEX**™ INC.

for Rigid Applications

**BUS AIR CONDITIONING  
FLEX METAL HOSES**



**ALL STAINLESS STEEL CONSTRUCTION**

- **CORE** = T-321 SS
- **BRAID** = T-304 SS  
*Overlay that doesn't allow visibility of carrier underneath!*
- **END FITTINGS** = T-304/T-316L/T-321 SS

**BEND RADIUSSES**

- **Min. Static:** per engineering chart per size
- **Min. Dynamic:** per engineering chart per size

**SHAPES**

- Annular Convolutions/Omega Shape

**CONSTRUCTION**

- Hydroformed or Similar Construction, Resulting in no Visible Surface Disruptions

**CONVOLUTION PITCH**

- Closed, to provide as many convolutions per foot as possible

**MATERIALS**

- All Domestic Material and Construction

**INTERIOR OF CARRIER**

- Clean & Free from of any Visible Dirt or Particulates as ascertained with boroscope or "shake test"

**FITTINGS**

- Include Dual Wrench (One Swivel – One Fixed) Flats (Hex) on each end to avoid Torsion of Carrier Element

**INSIDE BORE**

- No Visible Obstruction must be Present on Inside Bore of Hose Assemblies from either end resulting from Cutting or Welding Operations

**WELDS**

- All welds – TiG / Semiautomatic

**PRESSURES**

- Per engineering chart per size, but Pressure Tested to 1.5x working pressure

**INTERIOR OF CARRIER**

- Clean & Free from of any Visible Dirt or Particulates as ascertained with boroscope or "shake test"

**FITTINGS**

- Include Dual Wrench (One Swivel – One Fixed) Flats (Hex) on each end to avoid Torsion of Carrier Element

**INSIDE BORE**

- No Visible Obstruction must be Present on Inside Bore of Hose Assemblies from either end resulting from Cutting or Welding Operations

**SPECIFICATIONS**



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# BUS AIR CONDITIONING FLEX METAL HOSES

METAL HOSES

SPECIFICATIONS

NOMINAL HOSE ID	HOSE TYPE	HOSE OD	WEIGHT PER FT.	MIN. LIVE LENGTH FOR VIBRATION	MAX. BEND RADIUS		MAX. WORKING PRESSURE	MAX. TEST PRESSURE	NORMAL BURST PRESSURE
					STATIC BEND	DYNAMIC FLEXING			
1/4 "	UNBRAIDED	0.49	0.14	3.75	0.875	5.500	200	300	—
	SINGLE BRAIDED	0.55	0.21	3.75	0.875	5.500	2660	4000	10650
	DOUBLE BRAIDED	0.61	0.28	3.75	0.875	5.5	4500	6750	18000
3/8 "	UNBRAIDED	0.66	0.18	4.25	1.125	5.500	100	150	—
	SINGLE BRAIDED	0.73	0.25	4.25	1.125	5.500	1610	2415	6440
	DOUBLE BRAIDED	0.79	0.35	4.25	1.125	5.5	2435	3650	9750
1/2 "	UNBRAIDED	0.84	0.27	4.50	1.500	6.000	80	120	—
	SINGLE BRAIDED	0.90	0.38	4.50	1.500	6.000	1310	1965	5240
	DOUBLE BRAIDED	0.96	0.49	4.5	1.5	6	2355	3530	9420
3/4 "	UNBRAIDED	1.21	0.51	5.50	2.125	8.000	70	105	—
	SINGLE BRAIDED	1.27	0.67	5.50	2.125	8.000	915	1370	3660
	DOUBLE BRAIDED	1.33	0.84	5.5	2.125	8	1650	2475	6600
1 "	UNBRAIDED	1.53	0.75	6.50	2.750	9.000	43	65	—
	SINGLE BRAIDED	1.59	0.93	6.50	2.750	9.000	645	965	2580
	DOUBLE BRAIDED	1.65	1.13	6.5	2.75	9	1165	1745	4660
1 1/4 "	UNBRAIDED	1.86	0.96	7.00	3.250	10.500	29	43	—
	SINGLE BRAIDED	1.92	1.20	7.00	3.250	10.500	545	820	2180
	DOUBLE BRAIDED	1.98	1.45	7	3.25	10.5	980	1470	3920
1 1/2 "	UNBRAIDED	2.19	1.47	7.50	3.750	12.000	31	47	—
	SINGLE BRAIDED	2.27	1.85	7.50	3.750	12.000	560	840	2240
	DOUBLE BRAIDED	2.35	2.2	7.5	3.75	12	1000	1500	4000
2 "	UNBRAIDED	2.83	1.97	9	5	15	17	26	—
	SINGLE BRAIDED	2.91	2.44	9	5	15	450	675	1800
	DOUBLE BRAIDED	2.99	2.9	9	5	15	810	1215	3240
2 1/2 "	UNBRAIDED	3.00	1.42	7.00	7.000	14.000	6.5	10 855	—
	SINGLE BRAIDED	3.12	2.19	7.00	7.000	14.000	570		2280
	DOUBLE BRAIDED	3.24	2.96	7	7	14	750	1125	3000
3 "	UNBRAIDED	3.57	1.82	8	8.25	17	4.5	6.8	—
	SINGLE BRAIDED	3.69	2.7	8	8.25	17	450	675	1800
	DOUBLE BRAIDED	3.81	3.58	8	8.25	17	560	840	2240
3 1/2 "	UNBRAIDED	4.14	1.57	9.00	9.500	19.000	3 265	5 398	—
	SINGLE BRAIDED	4.26	2.43	9.00	9.500	19.000			1060
	DOUBLE BRAIDED	4.38	3.29	9	9.5	19	265	398	1060
4 "	UNBRAIDED	4.72	2.38	10	11	22	2	3	—
	SINGLE BRAIDED	4.84	3.34	10	11	22	285	425	1140
	DOUBLE BRAIDED	4.96	4.3	10	11	22	375	563	1500
5 "	UNBRAIDED	5.93	3.20	17.50	11.000	28.000	2.8	4.3	—
	SINGLE BRAIDED	6.03	4.50	17.50	11.000	28.000	265	400	1060
	DOUBLE BRAIDED	6.13	5.8	17.5	11	28	265	400	1060
6 "	UNBRAIDED	7	4.46	17	16.5	33	3.5	5.3	—
	SINGLE BRAIDED	7.19	6.2	17	16.5	33	240	360	960
	DOUBLE BRAIDED	7.38	7.94	17	16.5	33	285	428	1140
8 "	UNBRAIDED	9.06	5.85	19.00	21.500	43.000	2.7	4.1	—
	SINGLE BRAIDED	9.31	9.39	19.00	21.500	43.000	217	326	868
	DOUBLE BRAIDED	9.56	12.93	19	21.5	43	270	405	1080
10 "	UNBRAIDED	11.19	9.17	21	27	54	2.2	3.3	—
	SINGLE BRAIDED	11.44	13.54	21	27	54	210	315	840
	DOUBLE BRAIDED	11.69	17.91	21	27	54	375	563	1500
12 "	UNBRAIDED	13.25	10.93	23.00	32.000	64.000	1.8	2.8	—
	SINGLE BRAIDED	13.50	16.94	23.00	32.000	64.000	200	300	800
	DOUBLE BRAIDED	13.75	22.95	23	32	64	360	540	1440

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