

CryoWorks provides a wide variety of flexible metal hose assemblies to meet the most demanding applications for commercial and industrial service. Technical systems and assemblies can be designed by our onsite engineering and design team. Products may be tested via pre-fabrication stress analysis, in process non-destructive examination, post-fabrication proof pressure testing and mass spectrometer helium leak testing. All welding is completed to qualified ASME/AWS procedures. Post-fabrication cleaning can be performed to various levels including high purity, cryogenic, vacuum, and oxygen service.



Applications:

All types of transfer applications for liquids and gases:

- Seismic movement/vibration isolation.
- Thermal expansion.
- Cryogenic transfer lines and vents (Vacuum Insulation Available).
- Vacuum and suction lines (Leak checked to 1×10^{-9} Std. CC/sec.).
- Petrochemicals (Petroleum, CNG, LNG, etc.).
- Instrumentation.
- HVAC/Air Conditioning.
- Oxygen transfer lines.

Technical Specifications:

Hose - 321 SST Standard

We manufacture stainless steel flexible metal hose assemblies in sizes from 1/4" ID (6mm) to 12" ID (305mm). Extra flexible hose assemblies are available for small bend radius applications.

Braid - 304 SST Standard

Flex hose assemblies are available with or without stainless steel wire braid. Multiple layers of braid are available for increased pressure rating as well as custom braid parameters to meet client specifications.

End Connections

Standard end connections include pipe threads, SAE/JIC flares, ASME flanges, compressions, tube/pipe stubs, vacuum KF/CF flanges, groove end fittings, swivel ends, sanitary flanges, cam-lock ends, and CGA fittings.



Technical Data (Annular/Standard Pitch):

Nominal ID		# of Braids	Nominal OD		Minimum Bend Radius (in.)		MAWP (psig)	Nominal Burst (psig)	Weight Per Foot (LB.)
					Static	Dynamic			
1/4	6	0	0.40	10.16	1.00	5.00	200	-	0.08
		1	0.48	12.19			2,500	10,000	0.17
5/16	8	0	0.48	12.19	1.00	5.00	180	-	0.09
		0	0.57	14.48			2,300	9,200	0.19
3/8	10	0	0.63	16.00	1.25	5.50	100	-	0.13
		1	0.70	17.78			1,680	6,720	0.27
1/2	13	0	0.84	21.34	1.50	6.00	80	-	0.23
		1	0.91	23.11			1,240	4,960	0.39
3/4	19	0	1.21	30.73	2.25	8.00	70	-	0.39
		1	1.28	32.51			940	3,760	0.62
1	25	0	1.51	38.35	2.75	9.00	40	-	0.53
		1	1.58	40.13			630	2,520	0.79
1 1/4	32	0	1.85	46.99	3.50	10.50	25	-	0.76
		1	1.93	49.02			575	2,300	1.12
1 1/2	38	0	2.19	55.63	4.00	12.00	20	-	0.84
		1	2.28	57.91			500	2,000	1.29
2	51	0	2.61	66.29	5.00	15.00	15	-	0.90
		1	2.73	69.34			532	2,128	1.61
2 1/2	64	0	3.23	82.04	8.00	20.00	12	-	1.16
		1	3.33	84.58			500	2,000	1.86
3	76	0	3.78	96.01	9.00	22.00	10	-	1.21
		1	3.88	98.55			400	1,600	2.00
4	102	0	4.85	123.2	13.00	27.00	8	-	1.69
		1	4.98	126.5			300	1,200	2.68
5	127	0	5.90	149.9	18.00	31.00	6	-	2.50
		1	6.03	153.2			191	764	3.75
6	152	0	6.87	174.5	19.00	36.00	5	-	3.47
		1	7.10	180.3			165	660	4.75
8	203	0	9.09	230.9	20.00	40.00	6	-	5.56
		1	9.19	233.4			234	934	9.44

Note:

1. Technical data is subject to change without notice.
2. Technical data applies only to hoses at 70°F.
3. 316L Hose & Braid also available.