Flexible Connectors

Bronze Sweat Flexible Connector

SWEAT END METAL BRAIDED FLEXIBLE CONNECTOR

Flexible connectors are used to absorb thermal and seismic movement, absorb hydraulic shock, provide vibration and noise dampening, ease installation and correct minor misalignment of piping and components. They come in a variety of sizes, materials and connection ends for numerous applications.

The inner hose is an annular (bellows) design. An annular hose is better suited for pump connections because it can better sustain torsion stress due to longitudinal expansion from rises in pressure. Metal wire braid on a hose assembly restrains against hose elongation under higher pressures and acts to dampen vibration. A heavy braid also increases abrasion resistance. Optimal braid coverage will contain the core under pressure and reduce the possibility of twisting and squirming.

The use of braided metal connectors for applications such as pumps, compressors and other mechanical equipment can enhance the overall operation of a system.

Braided connectors have the advantages of:

- Longer service life
- Increased pressure capacity
- Greater fatigue resistance due to flex
- Increased temperature capacity of media
- Greater protection of annular hose
- Acceptance of thermal expansion

Assembly must have 100% chloride-free flux and be thoroughly cleaned after each installation.

Not recommended for underground applications.



PRESSURE/TEMPERATURE AT 70˚F

Size (in.)	Working PSI	Test PSI
3/4	375	562
1	390	585
1-1/4	340	510
1-1/2	320	480
2	320	480

*Multiply working pressure by pressure factor for temperature-adjusted pressure rating.

PRESSURE/TEMPERATURE ABOVE 70˚F

°F	Factor
100	0.95
150	0.92
200	0.89
250	0.86
300	0.83
350	0.81
400	0.78
450	0.75

PART NUMBERS & WEIGHT

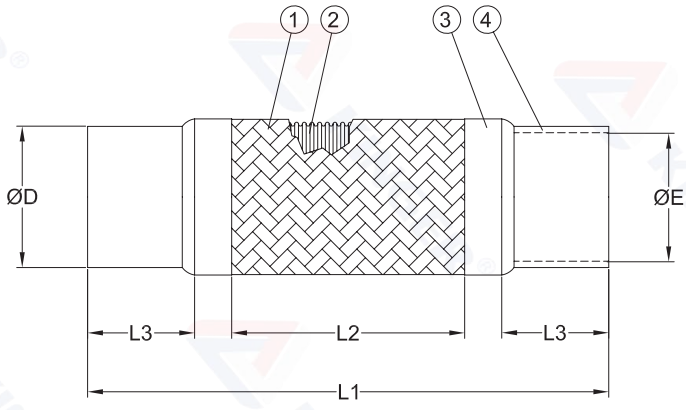
Size (in.)	Approx. Wt. (lbs)
3/4	0.46
1	0.66
1-1/4	0.88
1-1/2	1.34
2	1.96

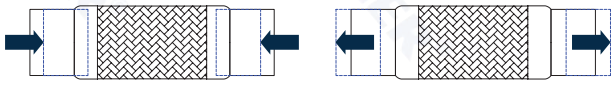
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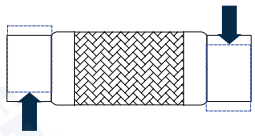
PARTS DIAGRAM



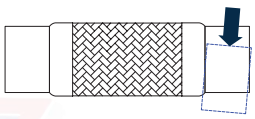


Axial Compression

Axial Elongation



Transverse Movement



Angular Deflection

REFERENCE CHART

Size	Dimensions (in.)				
	ØD	ØE	L1	L2	L3
3/4	0.88	0.868	7.0	2.93	1.250
1	1.13	1.288	8.0	3.68	1.375
1-1/4	1.38	1.368	8.5	4.18	1.375
1-1/2	1.63	1.618	9.0	4.23	1.500
2	2.13	2.116	10.5	5.43	1.750

STANDARD MATERIALS

Ref #	Description	Material
1	Hose Braid	Bronze
2	Corrugated Hose	Bronze
3	Braid Band	ASTM B88 Copper
4	Female Sweat End	ASTM B88 Copper

BRAID LIMITS

Size (in.)	Maximum Axial Compression (in.)	Maximum Axial Elongation (in.)	Maximum Transverse Movement (in.)	Maximum Angular Deflection
3/4	0.12	0.12	±0.08	2°
1	0.12	0.12	±0.08	2°
1-1/4	0.12	0.12	±0.08	1.5°
1-1/2	0.12	0.12	±0.08	1.5°
2	0.16	0.16	±0.12	1.5°

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