

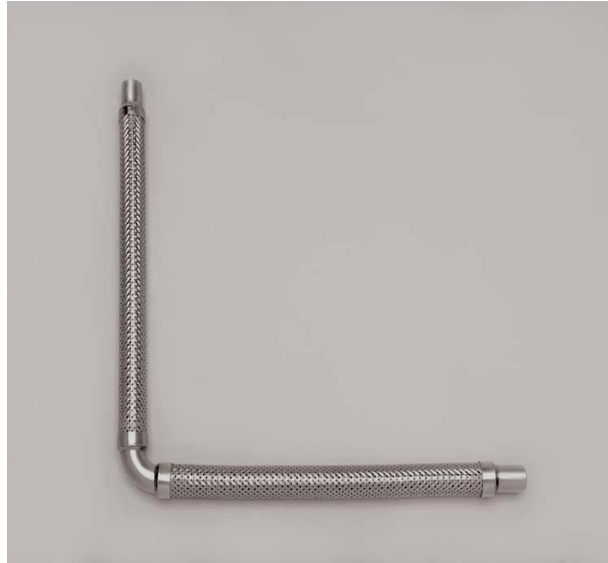


KE-LOOP™

L-FLEX GOLD SERIES

Bronze & Stainless Steel Expansion Loops

A Step-By Step Guide To Building A Better Loop



FEATURES:

- ▶ Seismic Protection of Equipment & Piping
- ▶ Space Saving Design
- ▶ Less Anchors & Guides Required
- ▶ Compensates for Offset & Lateral Motion
- ▶ Ease of Installation

APPLICATIONS

- Compensate for thermal expansion in all types of piping systems
- Allow for random and unpredictable seismic movements
- Protects and increases longevity of equipment and piping by reducing and eliminating stress and strain.
- Provide an access for easy pipe maintenance and condensate draining
- Compensates for excessive lateral movements
- Compensates for offset piping
- Versatile flexible connector for pipe misalignment
- In-the-wall design substitutes for bulky traditional expansion joints

SPECIALTY APPLICATIONS

- High pressure systems
- Ultra-purity cleanliness
- Corrosive

ADVANTAGES OVER CONVENTIONAL BELLOWS-TYPE EXPANSION JOINTS

- Less space required
- Easier to install
- Less product cost
- Less system hardware cost
- Less anchors needed
- Less guides needed
- Maintains connectivity and media flow during catastrophic occurrences

Models:

- KFCBLFSE
- KFCSLFLG
- KFCSLMPT
- KFCSLGR
- KFCSLWE



L-Flex Braided Assemblies

KE-LOOP™ ADVANTAGES

ADVANTAGES	L-FLEX KE-LOOP™	M-LOOP	T-LOOP
Most Affordable	•		
No Extra Guides Required	•	•	•
No Special Anchoring/Bracket System Required	•		•
Highest Ranking Ease of Installation	•		
Largest Variety of Standard Materials and End Fittings	•		
Reduces Effect of Torsion and Axial Motion on Flex Section	•	•	
Shortest Lead Times on Custom Sizes & Lengths	•		
100% American Manufactured (when specified)	•		
Installation Available	•		
5-Year Warranty Available (contact factory)	•		
Thermal Blanket Option	•		

Expansion hose loops have been designed and engineered for many years by professional annular metal hose manufacturers prior to the introduction of similar patented products. Keflex™ has the largest cumulative number of years designing and manufacturing flex hoses as well as the most extensive history and largest breadth of engineered HVAC products.

COMMON MISCONCEPTIONS:

An extra flex section is better— NO! A braided hose can not compensate for axial motion. In fact, applying torsion is unacceptable!

An anchoring & bracket system is required—NO! The flex should be allowed to move freely within its rated motion. Anchors & brackets which restrain and hold the assembly to collapsing walls and structures during seismic catastrophes defeat the purpose of a free-flexing pipe expansion loop.

NOTE: Although the piping system should be anchored & guided (pipe guides are required within [4] pipe diameters, both sides of flex) in accordance with accepted industry standards, adjacent guides are not required in chilled water applications if the pipe motion is controlled within the specified movements of the loops designs.

3 EASY STEPS TO BUILDING A BETTER LOOP....

STEP 1 - Determine Operating Conditions

STEP 2- Configuring the Loop

STEP 3 - Configuring the Nest



Quote Request Worksheet Adobe Acrobat Document





L-Flex Braided Assemblies

KFCBLFSE

- Female Copper Sweat Ends
- Bronze Hose & Braid

PIPE SIZE	PART #	MOVE-MENT	OAL	PSI SINGLE BRAID
1/2"	F004KFCBLFSE40 F004KFCBLFSE80	4 8	18" 24-1/8"	520
3/4"	F006KFCBLFSE40 F006KFCBLFSE80	4 8	20" 27"	420
1"	F010KFCBLFSE40 F010KFCBLFSE80	4 8	22-1/4" 29-3/4"	315
1-1/4"	F012KFCBLFSE40 F012KFCBLFSE80	4 8	24-1/4" 32-1/4"	290
1-1/2"	F014KFCBLFSE40 F014KFCBLFSE80	4 8	26" 34-3/4"	250
2"	F020KFCBLFSE40 F020KFCBLFSE80	4 8	29-1/2" 38-3/4"	225

KFCSLFLG

- 150# Carbon Steel Plate Flange
- Stainless Steel Hose &

PIPE SIZE	PART #	MOVE-MENT	OAL	PSI SINGLE BRAID
2"	F020KFCSLFLG40 F020KFCSLFLG80	4 8	26-1/8" 34-3/8"	435
2-1/2"	F024KFCSLFLG40 F024KFCSLFLG80	4 8	28-7/8" 34-7/8"	350
3"	F030KFCSLFLG40 F030KFCSLFLG80	4 8	30-3/8" 38-1/8"	325
4"	F040KFCSLFLG40 F040KFCSLFLG80	4 8	34-1/8" 46-1/8"	270
5"	F050KFCSLFLG40 F050KFCSLFLG80	4 8	37-3/4" 48-3/8"	200
6"	F060KFCSLFLG40 F060KFCSLFLG80	4 8	41-3/4" 53-3/4"	185
8"	F080KFCSLFLG40 F080KFCSLFLG80	4 8	46-1/2" 60"	185

KFCSLMPT

- Schedule 40 Carbon Steel Male Pipe Threads
- Stainless Steel Hose & Braid

PIPE SIZE	PART #	MOVE-MENT	OAL	PSI SINGLE BRAID
1/2"	F004KFCSLMPT40 F004KFCSLMPT80	4 8	19-1/2" 26-1/2"	1050
3/4"	F006KFCSLMPT40 F006KFCSLMPT80	4 8	20-5/8" 28-1/8"	675
1"	F010KFCSLMPT40 F010KFCSLMPT80	4 8	22" 29-3/4"	550
1-1/4"	F012KFCSLMPT40 F012KFCSLMPT80	4 8	24-1/8" 32-1/2"	510
1-1/2"	F014KFCSLMPT40 F014KFCSLMPT80	4 8	25-1/4" 33-3/4"	450
2"	F020KFCSLMPT40 F020KFCSLMPT80	4 8	27-3/4" 37"	435
2-1/2"	F024KFCSLMPT40 F024KFCSUMPT80	4 8	30-1/2" 40-1/4"	350
3"	F030KFCSLMPT40 F030KFCSLMPT80	4 8	32" 42-1/2"	325
4"	F040KFCSLMPT40 F040KFCSLMPT80	4 8	36-1/4" 47-3/4"	270



L-Flex Braided Assemblies

KFCSLWE

- Schedule 40 Carbon Steel Weld Ends
- Stainless Steel Hose & Braid

PIPE SIZE	PART #	MOVEMENT	OAL	PSI SINGLE BRAID
1/2"	F004KFCSLWE40 F004KFCSLWE80	4 8	19-1/2" 26-1/2"	1,050
3/4"	F006KFCSLWE40 F006KFCSLWE80	4 8	20-5/8" 28-1/8"	675
1"	F010KFCSLWE40 F010KFCSLWE80	4 8	22" 29-3/4"	550
1-1/4"	F012KFCSLWE40 F012KFCSLWE80	4 8	24-1/8" 32-1/2"	510
1-1/2"	F014KFCSLWE40 F014KFCSLWE80	4 8	25-1/4" 33-3/4"	450
2"	F020KFCSLWE40 F020KFCSLWE80	4 8	27-3/4" 37"	435
2-1/2"	F024KFCSLWE40 F024KFCSLWE80	4 8	30-1/2" 40-1/4"	350
3"	F030KFCSLWE40 F030KFCSLWE80	4 8	32" 42-1/4"	325
4"	F040KFCSLWE40 F040KFCSLWE80	4 8	36-1/4" 47-3/4"	270

KFCSLGR

- Schedule 40 Carbon Steel Groove Ends
- Stainless Steel-Hose & Braid

PIPE SIZE	PART #	MOVEMENT	OAL	PSI SINGLE BRAID
2"	F020KFCSLGR40 F020KFCSLGR80	4 8	28-1/2" 36-3/4"	435
2-1/2"	F024KFCSLGR40 F024KFCSLGR80	4 8	31-1/4" 37-1/2"	350
3"	F030KFCSLGR40 F030KFCSLGR80	4 8	32-3/4" 40-1/2"	325
4"	F040KFCSLGR40 F040KFCSLGR80	4 8	36-1/2" 48-1/2"	270
5"	F050KFCSLGR40 F050KFCSLGR80	4 8	40" 50-5/8"	200
6"	F060KFCSLGR40 F060KFCSLGR80	4 8	44" 56"	185
8"	F080KFCSLGR40 F080KFCSLGR80	4 8	49-1/2" 63"	185

- Note: For safe working pressures over 70°F., multiply the pressures shown at 70°F. by the correction factor for the required temperature....

TEMPERATURE °F	CORRECTION FACTOR	
	BRONZE	STAINLESS STEEL
70	1.0	1.0
200	.89	.92
300	.83	.86
400	.78	.82
500	—	.77
600	—	.73