



KE-LOOP™

U-FLEX GOLD SERIES

Bronze & Stainless Steel Expansion Loops

A Step-By Step Guide To Building A Better Loop



FEATURES:

- ▶ Seismic Protection for 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 / or 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:

- KFCBUFSE
- KFCSUFLG
- KFCSUMPT
- KFCSUGR
- KFCSUWE



U-Flex Braided Assemblies

KE-LOOP™ ADVANTAGES

ADVANTAGES	U-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 cannot 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 loop’s designs.

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

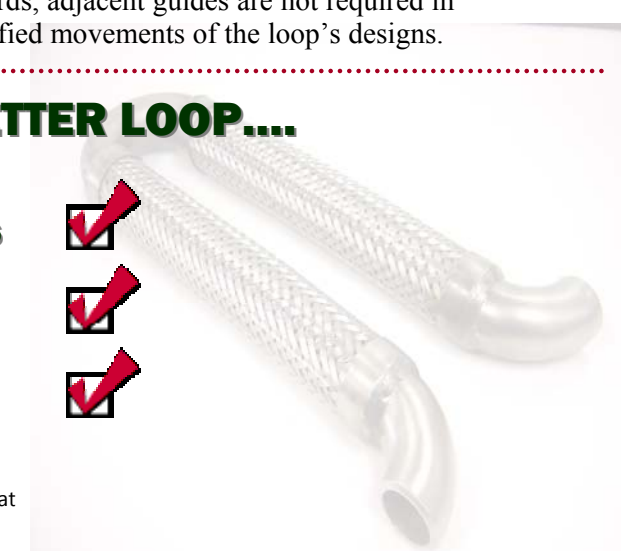
STEP 1 - Determine Operating Conditions

STEP 2- Configuring the Loop

STEP 3 - Configuring the Nest



Quote Request Worksheet Adobe Acrobat Document





U-Flex Braided Assemblies

KFCBUFSE

- Female Copper Sweat Ends
- Bronze Hose & Braid

PIPE SIZE	PART #	MOVE-MENT	OAL	LENGTH	MAX. WORK-ING PRES-SURE @70°F.	WEIGHT (LBS)
1/2"	F004KFCBUFSE14 F004KFCBUFSE40	1.5 4	5-3/4" 7-3/4"	14" 20"	520	2.5
3/4"	F006KFCBUFSE14 F006KFCBUFSE40	1.5 4	7-1/4" 9-1/4"	17" 25"	420	2.5
1"	F010KFCBUFSE14 F010KFCBUFSE40	1.5 4	8-1/8" 10-1/8"	18-1/4" 26"	315	3
1-1/4"	F012KFCBUFSE14 F012KFCBUFSE40	1.5 4	9-1/2" 12-1/2"	20-1/4" 27-3/4"	290	4
1-1/2"	F014KFCBUFSE14 F014KFCBUFSE40	1.5 4	11-1/8" 14"	22" 29-1/2"	250	4.5
2"	F020KFCBUFSE14 F020KFCBUFSE40	1.5 4	14-1/8" 18"	25" 33-1/2"	225	12
2-1/2"	F024KFCBUFSE14 F024KFCBUFSE40	1.5 4	17-3/8" 21"	27-3/8" 36-1/2"	135	18
3"	F030KFCBUFSE14 F030KFCBUFSE40	1.5 4	21-5/8" 27"	29-3/4" 39-1/2"	125	24
4"	F040KFCBUFSE14 F040KFCBUFSE40	1.5 4	26-1/2" 34"	35-7/8" 46-1/4"	100	31

KFCSUFLG

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

PIPE SIZE	PART #	MOVE-MENT	OAL	LENGTH	MAX. WORK-ING PRES-SURE @70°F.	WEIGHT (LBS)
2"	F020KFCSUFLG14 F020KFCSUFLG40	1.5 4	12-1/2" 15-1/2"	22" 30"	435	24
2-1/2"	F024KFCSUFLG14 F024KFCSUFLG40	1.5 4	15-1/2" 17-1/2"	26" 33-1/2"	350	36
3"	F030KFCSUFLG14 F030KFCSUFLG40	1.5 4	18-1/2" 18-1/2"	28" 36"	325	50
4"	F040KFCSUFLG14 F040KFCSUFLG40	1.5 4	24-1/2" 24-1/2"	32" 42-1/2"	270	69
5"	F050KFCSUFLG14 F050KFCSUFLG40	1.5 4	30-1/2" 30-1/2"	38" 47-1/2"	200	101
6"	F060KFCSUFLG14 F060KFCSUFLG40	1.5 4	36-1/2" 36-1/2"	42" 53-1/2"	185	163
8"	F080KFCSUFLG14 F080KFCSUFLG40	1.5 4	48-1/2" 48-1/2"	54" 69"	185	309

KFCSUMPT

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

PIPE SIZE	PART #	MOVE-MENT	OAL	LENGTH	MAX. WORK-ING PRES-SURE @70°F.	WEIGHT (LBS)
1/2"	F004KFCSUMPT14 F004KFCSUMPT40	1.5 4	10" 13"	14" 19-1/2"	1050	5
3/4"	F006KFCSUMPT14 F006KFCSUMPT40	1.5 4	10-1/2" 14"	15" 20-1/2"	675	5
1"	F010KFCSUMPT14 F010KFCSUMPT40	1.5 4	11" 15"	16" 22"	550	8
1-1/4"	F012KFCSUMPT14 F012KFCSUMPT40	1.5 4	13" 16"	18" 24-1/2"	510	10
1-1/2"	F014KFCSUMPT14 F014KFCSUMPT40	1.5 4	14-1/2" 18"	20" 26"	450	14
2"	F020KFCSUMPT14 F020KFCSUMPT40	1.5 4	16-1/2" 20"	22" 30"	435	18
2-1/2"	F024KFCSUMPT14 F024KFCSUMPT40	1.5 4	19-1/2" 22"	26" 33-1/2"	350	29
3"	F030KFCSUMPT14 F030KFCSUMPT40	1.5 4	22-1/2" 22-1/2"	28" 36"	325	43
4"	F040KFCSUMPT14 F040KFCSUMPT40	1.5 4	28-1/2" 28-1/2"	32" 42-1/2"	270	



U-Flex Braided Assemblies

KFCSUWE

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

PIPE SIZE	PART #	MOVEMENT	OAL	LENGTH	MAX. WORK-ING PRES-SURE @70°F.	WEIGHT (LBS)
1/2"	F004KFCSUWE14 F004KFCSUWE40	1.5 4	7" 10"	14" 19-1/2"	1,050	5
3/4"	F006KFCSUWE14 F006KFCSUWE40	1.5 4	7-1/2" 11"	15" 20-1/2"	675	5
1"	F010KFCSUWE14 F010KFCSUWE40	1.5 4	7-1/2" 11-1/2"	16" 22"	550	7
1-1/4"	F012KFCSUWE14 F012KFCSUWE40	1.5 4	8-1/2" 11-1/2"	18" 24-1/2"	510	9
1-1/2"	F014KFCSUWE14 F014KFCSUWE40	1.5 4	10" 13-1/2"	20" 26"	450	13
2"	F020KFCSUWE14 F020KFCSUWE40	1.5 4	12" 15-1/2"	22" 30"	435	16
2-1/2"	F024KFCSUWE14 F024KFCSUWE40	1.5 4	15" 17-1/2"	26" 33-1/2"	350	26
3"	F030KFCSUWE14 F030KFCSUWE40	1.5 4	18" 18"	28" 36"	325	39
4"	F040KFCSUWE14 F040KFCSUWE40	1.5 4	24" 24"	32" 42-1/2"	270	54
5"	F050KFCSUWE14 F050KFCSUWE40	1.5 4	30" 30"	38" 47-1/2"	200	91
6"	F060KFCSUWE14 F060KFCSUWE40	1.5 4	36" 36"	42" 53-1/2"	185	140
8"	F080KFCSUWE14 F080KFCSUWE40	1.5 4	48" 48"	54" 69"	185	267

KFCSUGR

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

PIPE SIZE	PART #	MOVEMENT	OAL	LENGTH	MAX. WORK-ING PRES-SURE @70°F.	WEIGHT (LBS)
2"	F020KFCSUGR14 F020KFCSUGR40	1.5 4	18" 21"	22" 30"	435	24
2-1/2"	F024KFCSUGR14 F024KFCSUGR40	1.5 4	21" 23"	26" 33-1/2"	350	36
3"	F030KFCSUGR14 F030KFCSUGR40	1.5 4	24" 24"	28" 36"	325	50
4"	F040KFCSUGR14 F040KFCSUGR40	1.5 4	30" 30"	32" 42-1/2"	270	69
5"	F050KFCSUGR14 F050KFCSUGR40	1.5 4	36" 36"	38" 47-1/2"	200	101
6"	F060KFCSUGR14 F060KFCSUGR40	1.5 4	42" 42"	42" 53-1/2"	185	163
8"	F080KFCSUGR14 F080KFCSUGR40	1.5 4	56" 56"	54" 69"	185	309

- 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