



KE-LOOP™

V-FLEX GOLD SERIES

Bronze & Stainless Steel Expansion Loops

A Step-By Step Guide To Building A Better Loop



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

FEATURES:

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

Models:

- KFCBVFSE
- KFCSVFLG
- KFCSVMPT
- KFCSVGR
- KFCSVWE



V-Flex Braided Assemblies

KE-LOOP™ ADVANTAGES

ADVANTAGES	V-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



V-Flex Braided Assemblies

KFCBVFSE

- 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"	F004KFCBVFSE20	2	19-7/8"	9-1/2"	520	2
	F004KFCBVFSE40	4	26-7/8"	12-5/8"		
3/4"	F006KFCBVFSE20	2	23-1/2"	11-1/8"	420	2
	F006KFCBVFSE40	4	31-1/4"	14-1/2"		
1"	F010KFCBVFSE20	2	25-1/4"	12"	315	2.5
	F010KFCBVFSE40	4	33-3/4"	15-1/2"		
1-1/4"	F012KFCBVFSE20	2	28"	13-1/8"	290	3
	F012KFCBVFSE40	4	36-1/2"	16-7/8"		
1-1/2"	F014KFCBVFSE20	2	29-7/8"	14"	250	3.5
	F014KFCBVFSE40	4	38-3/4"	17-3/4"		
2"	F020KFCBVFSE20	2	34-1/8"	15-3/4"	225	8
	F020KFCBVFSE40	4	44"	20"		
2-1/2"	F024KFCBVFSE20	2	43-1/8"	18-1/2"	135	12
	F024KFCBVFSE40	4	52-1/4"	23-1/8"		
3"	F030KFCBVFSE20	2	46-3/8"	19-7/8"	125	16
	F030KFCBVFSE40	4	55-7/8"	24-5/8"		
4"	F040KFCBVFSE20	2	54-1/2"	23-1/8"	100	22
	F040KFCBVFSE40	4	65-1/4"	28-1/2"		

KFCSVFLG

- 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"	F020KFCSVFLG20	2	32-1/4"	14-1/2"	435	16
	F020KFCSVFLG40	4	40-1/2"	18-5/8"		
2-1/2"	F024KFCSVFLG20	2	35"	15-1/2"	350	25
	F024KFCSVFLG40	4	46-1/2"	21-1/4"		
3"	F030KFCSVFLG20	2	40"	17-3/4"	325	35
	F030KFCSVFLG40	4	49-3/8"	22-1/2"		
4"	F040KFCSVFLG20	2	45-3/4"	20-1/4"	270	48
	F040KFCSVFLG40	4	57-1/8"	25-3/4"		
5"	F050KFCSVFLG20	2	53"	23"	200	72
	F050KFCSVFLG40	4	63-1/2"	28-3/8"		
6"	F060KFCSVFLG20	2	59-1/4"	25 3/4"	185	144
	F060KFCSVFLG40	4	71"	31-1/2"		
8"	F080KFCSVFLG20	2	71-1/4"	30-1/2"	185	216
	F080KFCSVFLG40	4	85-1/2"	37-1/2"		

KFCVMPT

- 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"	F004KFCVMPT20	2	21-1/4"	9-1/2"	1050	4
	F004KFCVMPT40	4	29-1/2"	12-5/8"		
3/4"	F006KFCVMPT20	2	23"	10-1/8"	675	4
	F006KFCVMPT40	4	31-1/4"	13-1/2"		
1"	F010KFCVMPT20	2	25-1/4"	11"	550	6
	F010KFCVMPT40	4	34-1/2"	14-1/2"		
1-1/4"	F012KFCVMPT20	2	26-3/4"	12-1/8"	510	7
	F012KFCVMPT40	4	38-1/8"	15-7/8"		
1-1/2"	F014KFCVMPT20	2	29-1/4"	12-7/8"	450	10
	F014KFCVMPT40	4	40-1/8"	16-3/4"		
2"	F020KFCVMPT20	2	36-1/4"	14-1/2"	435	12
	F020KFCVMPT40	4	44-1/2"	18-5/8"		
2-1/2"	F024KFCVMPT20	2	39"	15-1/2"	350	20
	F024KFCVMPT40	4	50-1/2"	21-1/4"		
3"	F030KFCVMPT20	2	44"	17-3/4"	325	30
	F030KFCVMPT40	4	53-1/2"	21-1/4"		



V-Flex Braided Assemblies

KFCSVWE

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

PIPE SIZE	PART #	MOVEMENT	OAL	LENGTH	MAX. WORKING PRESSURE @70°F.	WEIGHT (LBS)
1/2"	F004KFCSVWE20	2	18-1/4"	9-1/2"	1,050	4
	F004KFCSVWE40	4	26-1/2"	12-5/8"		
3/4"	F006KFCSVWE20	2	20"	10-1/8"	675	4
	F006KFCSVWE40	4	28-1/4"	13-1/2"		
1"	F010KFCSVWE20	2	21-3/4"	11"	550	5
	F010KFCSVWE40	4	31"	14-1/2"		
1-1/4"	F012KFCSVWE20	2	22-1/4"	12-1/8"	510	6
	F012KFCSVWE40	4	33-5/8"	15-7/8"		
1-1/2"	F014KFCSVWE20	2	24-3/4"	12-7/8"	450	9
	F014KFCSVWE40	4	35-5/8"	16-3/4"		
2"	F020KFCSVWE20	2	31-3/4"	14-1/2"	435	11
	F020KFCSVWE40	4	40"	18-5/8"		
2-1/2"	F024KFCSVWE20	2	34-1/2"	15-1/2"	350	18
	F024KFCSVWE40	4	46"	21-1/4"		
3"	F030KFCSVWE20	2	39-1/2"	17-3/4"	325	27
	F030KFCSVWE40	4	48-7/8"	22-1/2"		

KFCSVGR

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

PIPE SIZE	PART #	MOVEMENT	OAL	LENGTH	MAX. WORKING PRESSURE @70°F.	WEIGHT (LBS)
1/2"	F004KFCSVGR20	2	24-1/4"	9-1/2"	435	17
	F004KFCSVGR40	4	37-3/4"	14-1/2"		
3/4"	F006KFCSVGR20	2	26"	10-1/8"	350	25
	F006KFCSVGR40	4	40-1/2"	15-1/2"		
1"	F010KFCSVGR20	2	27-3/4"	11"	325	35
	F010KFCSVGR40	4	45-1/2"	17-3/4"		
1-1/4"	F012KFCSVGR20	2	28-1/4"	12-1/8"	270	48
	F012KFCSVGR40	4	51-1/4"	20-1/4"		
1-1/2"	F014KFCSVGR20	2	30-3/4"	12-7/8"	350	25
	F014KFCSVGR40	4	40-1/2"	15-1/2"		
2"	F020KFCSVGR20	2	37-3/4"	14-1/2"	435	17
	F020KFCSVGR40	4	46"	18-5/8"		
2-1/2"	F024KFCSVGR20	2	40-1/2"	15-1/2"	350	25
	F024KFCSVGR40	4	52-1/4"	21-1/4"		
3"	F030KFCSVGR20	2	45-1/2"	17-3/4"	325	35
	F030KFCSVGR40	4	54-7/8"	22-1/2"		
4"	F040KFCSVGR20	2	51-1/4"	20-1/4"	270	48
	F040KFCSVGR40	4	62-5/8"	25-3/4"		

- 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	.94
300	.83	.88
400	.78	.83
500	—	.78
600	—	.74