

A	Female Copper Sweat
B	Bronze Hose and Braid*
C	Copper 90° Elbow*

(1) Spring force calculated at 150 psi.

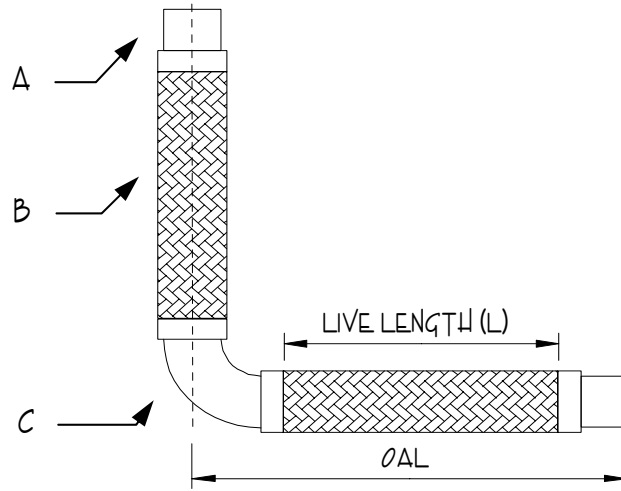
Replaces Series L2004SB  
 Allowable Movement +/- 2" in all planes

Reference	Qty	Model #	Pipe Size	OAL (in)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-41SB2-050	1/2"	14.05	11.25	487	731	35
		L-41SB2-075	3/4"	16.85	13.25	572	858	41
		L-41SB2-100	1"	18.25	13.75	267	401	45
		L-41SB2-125	1-1/4"	21.25	15.75	243	365	64
		L-41SB2-150	1-1/2"	22.5	16.5	251	377	75
		L-41SB2-200	2"	25.05	18.25	167	251	82
		L-61SB2-250	2-1/2"	22	14	570	855	86
		L-61SB2-300	3"	24.35	15.75	450	675	93
		L-61SB2-400	4"	27.3	17.5	285	428	127

Sizes 2-1/2" and larger use Stainless Steel hose, braid and elbow.

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Title: Seismic Connector Dog-leg Copper Sweat		
Project:	Dwg# L41SB2		
	Date: 5/15/2005		
Approval:	Dwg By: EM	Rev:	B



A	Female Copper Sweat
B	Bronze Hose and Braid*
C	Copper 90° Elbow*

(1) Spring force calculated at 150 psi.

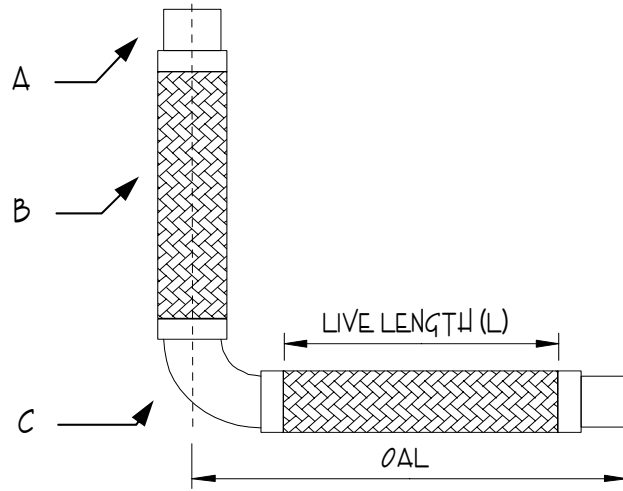
Replaces Series L2006SB  
 Allowable Movement +/- 3" in all planes

Reference	Qty	Model #	Pipe Size	OAL (in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-41SB3-050	1/2"	16.55	13.75	487	731	35
		L-41SB3-075	3/4"	19.85	16.25	572	858	41
		L-41SB3-100	1"	21.25	16.75	267	401	45
		L-41SB3-125	1-1/4"	24.25	18.75	243	365	64
		L-41SB3-150	1-1/2"	26.25	20.25	251	377	75
		L-41SB3-200	2"	29.05	22.25	167	251	82
		L-61SB3-250	2-1/2"	25.25	17.25	570	855	86
		L-61SB3-300	3"	27.85	19.25	450	675	93
		L-61SB3-400	4"	31.3	21.5	285	428	127

Sizes 2-1/2" and larger use Stainless Steel hose, braid and elbow.

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Title: Seismic Connector Dog-leg Copper Sweat	
Project:	Dwg# L41SB3	
	Date: 5/15/2005	
Approval:	Dwg By: EM	Rev: B



A	Female Copper Sweat
B	Bronze Hose and Braid
C	Copper 90° Elbow

(1) Spring force calculated at 150 psi.

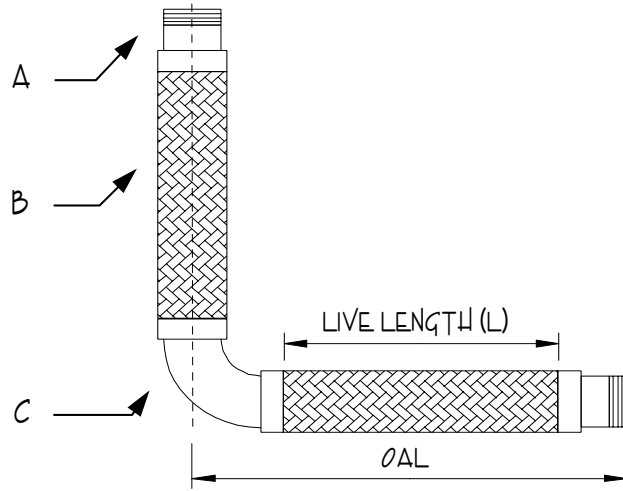
Replaces Series L2008SB  
 Allowable Movement +/- 4" in all planes

Reference	Qty	Model #	Pipe Size	OAL (in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-41SB4-050	1/2"	18.8	16	487	731	35
		L-41SB4-075	3/4"	22.35	18.75	572	858	41
		L-41SB4-100	1"	24	19.5	267	401	45
		L-41SB4-125	1-1/4"	27.5	22	243	365	64
		L-41SB4-150	1-1/2"	29.5	23.5	251	377	75
		L-41SB4-200	2"	32.8	26	167	251	82
		L-61SB4-250	2-1/2"	28	20	570	855	86
		L-61SB4-300	3"	31.1	22.5	450	675	93
		L-61SB4-400	4"	34.8	25	285	428	127

Sizes 2-1/2" and larger use Stainless Steel hose, braid and elbow.

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Seismic Connector Dog-leg Copper Sweat		
Project:	Dwg#	L41SB4	
	Date:	5/15/2005	
Approval:	Dwg By:	EM	Rev: B



A	S40 Steel MPT Pipe Nipple
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

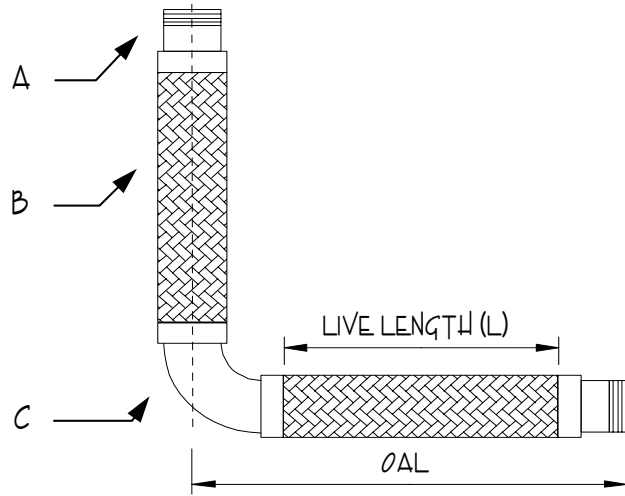
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2004M  
 Allowable Movement +/- 2" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61M2-050	1/2"	16.5	8	796	1194	35
		L-61M2-075	3/4"	17.625	9	597	896	41
		L-61M2-100	1"	19	10	455	683	45
		L-61M2-125	1-1/4"	20.625	11.25	441	662	64
		L-61M2-150	1-1/2"	23.5	13.75	370	555	75
		L-61M2-200	2"	24.5	14	370	555	82
		L-61M2-250	2-1/2"	27.75	16	580	870	86
		L-61M2-300	3"	30	17.5	460	690	93

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Title: Seismic Connector Dog-leg Steel Threaded MPT		
Project:	Dwg#	L61M2	
	Date:	5/15/2005	
Approval:	Dwg By:	EM	Rev: B



A	S40 Steel MPT Pipe Nipple
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

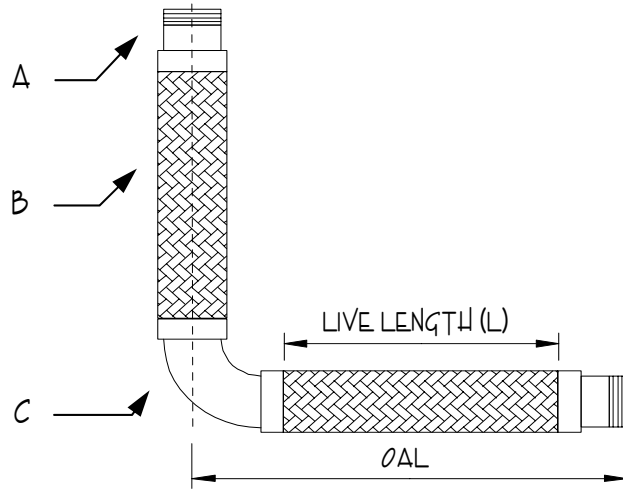
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2006M  
 Allowable Movement +/- 3" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61M3-050	1/2"	18.5	10	796	1194	35
		L-61M3-075	3/4"	20.375	11.75	597	896	41
		L-61M3-100	1"	21.5	12.5	455	683	45
		L-61M3-125	1-1/4"	23.125	13.75	441	662	64
		L-61M3-150	1-1/2"	25.5	15.75	370	555	75
		L-61M3-200	2"	27.75	17.25	370	555	82
		L-61M3-250	2-1/2"	31.5	19.75	580	870	86
		L-61M3-300	3"	34	21.5	460	690	93

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Title: Seismic Connector Dog-leg Steel Threaded MPT	
Project:	Dwg# L61M3	
	Date: 5/15/2005	
Approval:	Dwg By: EM	Rev: B



A	S40 Steel MPT Pipe Nipple
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

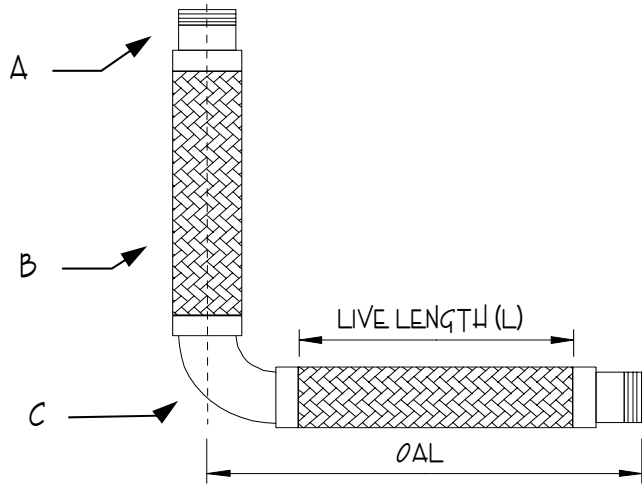
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2008M  
 Allowable Movement +/- 4" in all planes

reference	Qty	Model #	Pipe Size	oal (2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61M4-050	1/2"	20.25	11.75	796	1194	35
		L-61M4-075	3/4"	22.375	13.75	597	896	41
		L-61M4-100	1"	23.5	14.5	455	683	45
		L-61M4-125	1-1/4"	25.375	16	441	662	64
		L-61M4-150	1-1/2"	28	18.25	370	555	75
		L-61M4-200	2"	30.5	20	370	555	82
		L-61M4-250	2-1/2"	34.75	23	580	870	86
		L-61M4-300	3"	37.5	25	460	690	93

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Title: Seismic Connector Dog-leg Steel Threaded MPT		
Project:	Dwg#	L61M4	
	Date:	6/15/2005	
Approval:	Dwg By:	EM	Rev: B



A	S80 Steel MPT Pipe Nipple
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

Certified(1) by CSA International(2) for use on gas pipe lines  
 Certification Report No. 190623-1131571

Allowable Movement +/- 4" in all planes

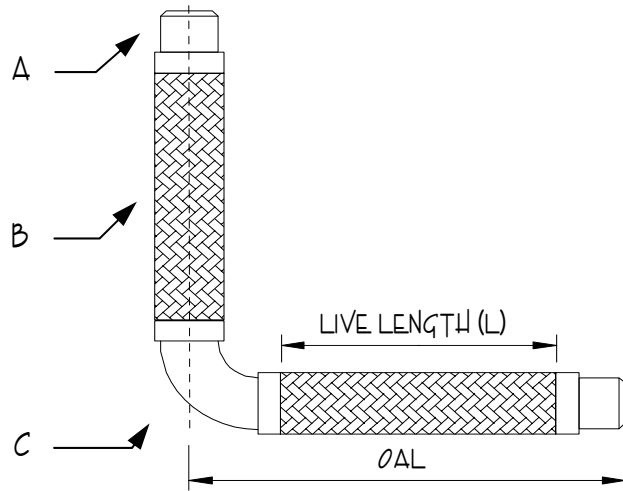
- (1) Applicable Requirements: ANSI/UL536-1997 Standards for Flexible Metal Hose.  
 (2) CSA International is the current certification agency for gas industry products in North America, assuming the authority formerly associated with the (AGA).

Reference	Qty	Model #	Pipe Size	OAL (3)(in.)	L (in.)	Pressures 70°F		Spring(4) Force lbs
						Operating	Burst	
		LSF21CSA050-40	1/2"	20	16	150	5340	35
		LSF21CSA075-40	3/4"	21.75	17	150	4540	41
		LSF21CSA100-40	1"	22.75	18	150	3180	45
		LSF21CSA125-40	1-1/4"	28.4	23	150	2240	64
		LSF21CSA150-40	1-1/2"	29.8	24	150	2120	75
		LSF21CSA200-40	2"	32	25	150	2140	82
		LSF21CSA250-40	2-1/2"	37.8	29	150	2140	86
		LSF21CSA300-40	3"	39.5	30	150	1540	93
		LSF21CSA400-40	4"	44	32	150	1080	127

- (3) OAL is approximate due to fitting tolerances.  
 (4) Approx. Spring force calculated at 150 psi.

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Seismic Connector Dog-leg CSA Male Pipe Thread		
Project:	Dwg#	LSF21CSA4040-504	
	Date:	5/1/2004	
Approval:	Dwg By:	EM	Rev: A



A	Beveled S40 Steel Pipe
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

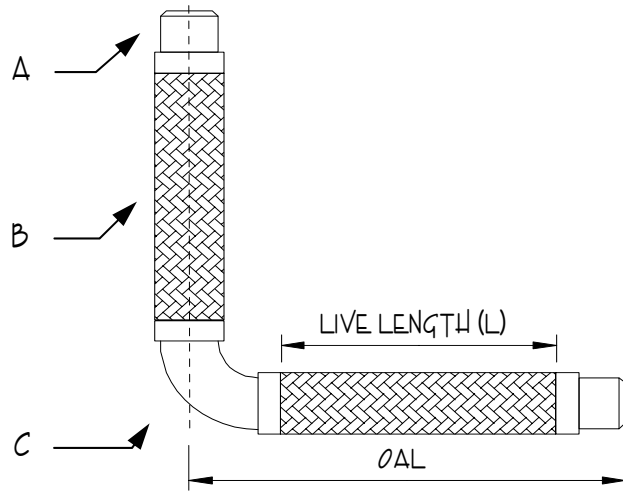
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2004W  
 Allowable Movement +/- 2" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1)
						Operating	Test	Force lbs
		L-61W2-050	1/2"	16.5	8	796	1194	35
		L-61W2-075	3/4"	17.625	9	597	896	41
		L-61W2-100	1"	19	10	455	683	45
		L-61W2-125	1-1/4"	20.625	11.25	441	662	64
		L-61W2-150	1-1/2"	23.5	13.75	370	555	75
		L-61W2-200	2"	24.5	14	370	555	82
		L-61W2-250	2-1/2"	27.75	16	570	855	86
		L-61W2-300	3"	30	17.5	450	675	93
		L-61W2-400	4"	32.25	18.25	285	428	127
		L-61W2-500	5"	34.5	19	210	315	214
		L-61W2-600	6"	41	24	240	360	228
		L-61W2-800	8"	46.5	24.5	217	326	312
		L-61W2-1000	10"	50	25	165	248	345
		L-61W2-1200	12"	55	27	155	233	399

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Title: Seismic Connector Dog-leg Beveled Weld End	
Project:	Dwg# L61W2	
	Date: 5/15/2005	
Approval:	Dwg By: EM	Rev: B



A	Beveled S40 Steel Pipe
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

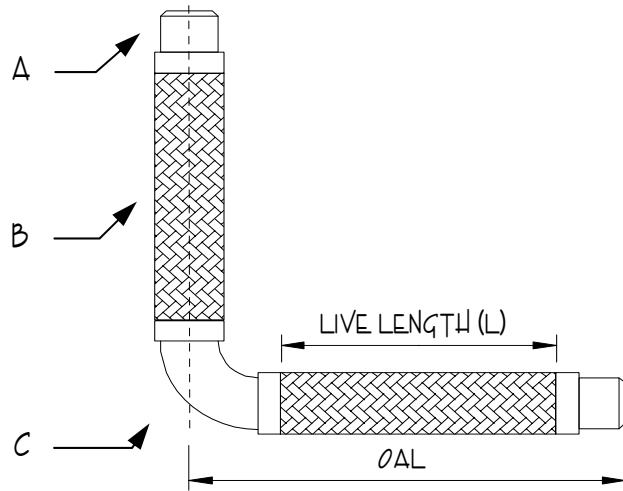
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2006W  
 Allowable Movement +/- 3" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1)
						Operating	Test	Force lbs
		L-61W3-050	1/2"	18.5	10	796	1194	35
		L-61W3-075	3/4"	20.375	11.75	597	896	41
		L-61W3-100	1"	21.5	12.5	455	683	45
		L-61W3-125	1-1/4"	23.125	13.75	441	662	64
		L-61W3-150	1-1/2"	25.5	15.75	370	555	75
		L-61W3-200	2"	27.75	17.25	370	555	82
		L-61W3-250	2-1/2"	31.5	19.75	570	855	86
		L-61W3-300	3"	34	21.5	450	675	93
		L-61W3-400	4"	36.25	22.25	285	428	127
		L-61W3-500	5"	39	23.5	210	315	214
		L-61W3-600	6"	45	28	240	360	228
		L-61W3-800	8"	52	30	217	326	312
		L-61W3-1000	10"	55.25	30.25	165	248	345
		L-61W3-1200	12"	61	33	155	233	399

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Title: Seismic Connector Dog-leg Beveled Weld End	
Project:	Dwg# L61W3	
	Date: 5/15/2005	
Approval:	Dwg By: EM	Rev: B



A	Beveled S40 Steel Pipe
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

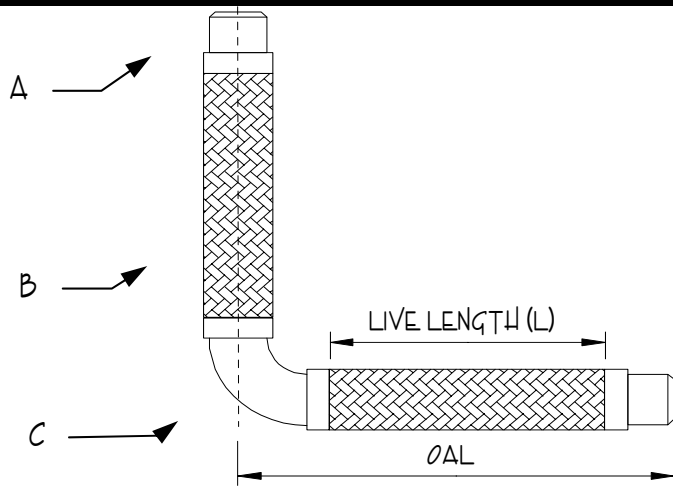
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2008W  
 Allowable Movement +/- 4" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61W4-050	1/2"	20.25	11.75	796	1194	35
		L-61W4-075	3/4"	22.375	13.75	597	896	41
		L-61W4-100	1"	23.5	14.5	455	683	45
		L-61W4-125	1-1/4"	25.375	16	441	662	64
		L-61W4-150	1-1/2"	28	18.25	370	555	75
		L-61W4-200	2"	30.5	20	370	555	82
		L-61W4-250	2-1/2"	34.75	23	570	855	86
		L-61W4-300	3"	37.5	25	450	675	93
		L-61W4-400	4"	40	26	285	428	127
		L-61W4-500	5"	42.75	27.25	210	315	214
		L-61W4-600	6"	49.25	32.25	240	360	228
		L-61W4-800	8"	56.75	34.75	217	326	312
		L-61W4-1000	10"	60	35	165	248	345
		L-61W4-1200	12"	66.25	38.25	155	233	399

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Title: Seismic Connector Dog-leg Beveled Weld End	
Project:	Dwg# L61W4	
	Date: 5/15/2005	
Approval:	Dwg By: EM	Rev: B



A	S80 Steel Weld End
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

Certified(1) by CSA International(2) for use on gas pipe lines  
 Certification Report No. 190623-1131571

Allowable Movement +/- 4" in all planes

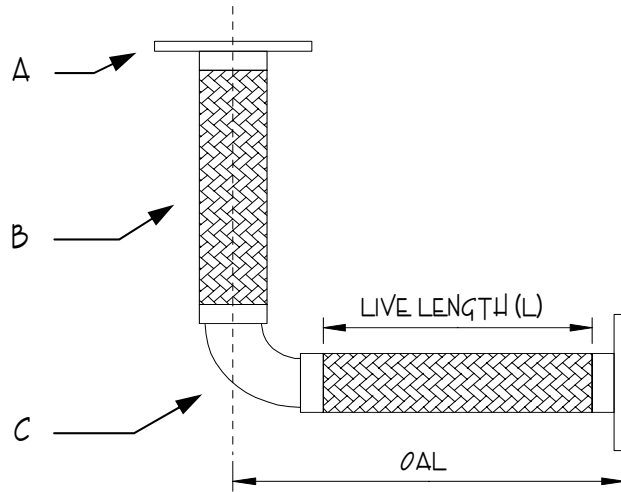
- (1) Applicable Requirements: ANSI/UL536-1997 Standards for Flexible Metal Hose.  
 (2) CSA International is the current certification agency for gas industry products in North America, assuming the authority formerly associated with the (AGA).

Reference	Qty	Model #	Pipe Size	OAL (3)(in.)	L (in.)	Pressures 70°F		Spring(4) Force lbs
						Operating	Burst	
		LSF21CSA050-42	1/2"	20	16	150	5340	35
		LSF21CSA075-42	3/4"	21.75	17	150	4540	41
		LSF21CSA100-42	1"	22.75	18	150	3180	45
		LSF21CSA125-42	1-1/4"	28.4	23	150	2240	64
		LSF21CSA150-42	1-1/2"	29.8	24	150	2120	75
		LSF21CSA200-42	2"	32	25	150	2140	82
		LSF21CSA250-42	2-1/2"	37.8	29	150	2140	86
		LSF21CSA300-42	3"	39.5	30	150	1540	93
		LSF21CSA400-42	4"	44	32	150	1080	127

- (3) OAL is approximate due to fitting tolerances.  
 (4) Approx. Spring force calculated at 150 psi.

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Title: Seismic Connector Dog-leg CSA Beveled Weld end	
Project:	Dwg# LSF21CSA4242-504	Date: 5/1/2004
Approval:	Dwg By: EM	Rev: A



A	ASA Steel Plate Flange 150# Drill
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

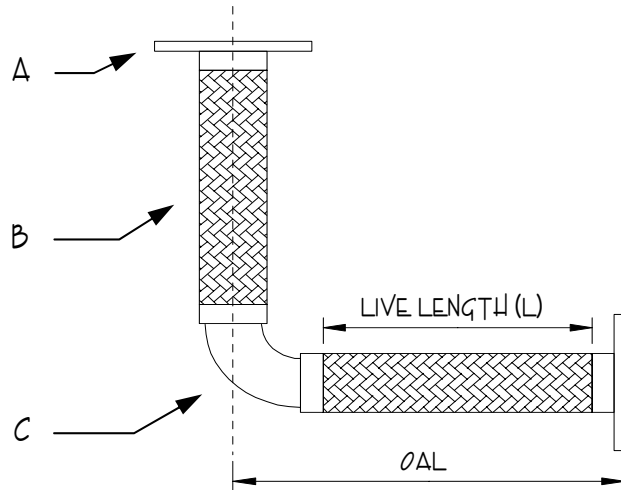
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2004F  
 Allowable Movement +/- 2" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61F2-200	2"	19	14	370	555	82
		L-61F2-250	2-1/2"	22.25	16	570	855	86
		L-61F2-300	3"	24.5	17.5	450	675	93
		L-61F2-400	4"	26.75	18.25	285	428	127
		L-61F2-500	5"	29	19	210	315	214
		L-61F2-600	6"	35.5	24	240	360	228
		L-61F2-800	8"	39	24.5	217	326	312
		L-61F2-1000	10"	42.5	25	165	248	345
		L-61F2-1200	12"	47.5	27	155	233	399

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Seismic Connector Dog-leg ASA Flanged		
Project:	Dwg#	L61F2	
	Date:	5/15/2005	
Approval:	Dwg By:	EM	Rev: B



A	ASA Steel Plate Flange 150# Drill
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

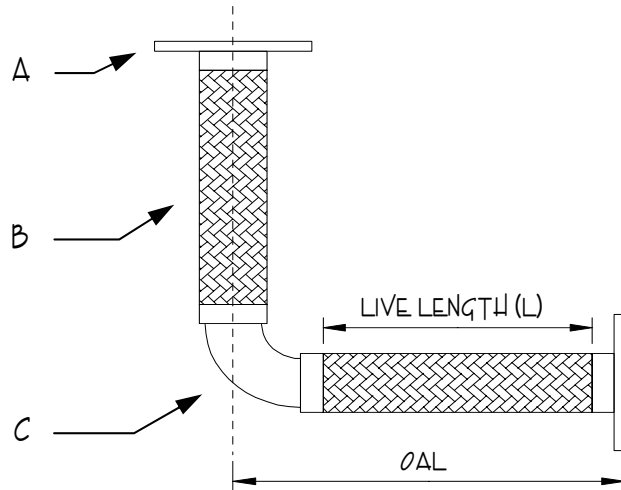
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2006F  
 Allowable Movement +/- 3" in all planes

Reference	Qty	Model #	Pipe Size	OAL(2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61F3-200	2"	22.25	17.25	370	555	82
		L-61F3-250	2-1/2"	26	19.75	570	855	86
		L-61F3-300	3"	28.5	21.5	450	675	93
		L-61F3-400	4"	30.75	22.25	285	428	127
		L-61F3-500	5"	33.5	23.5	210	315	214
		L-61F3-600	6"	39.5	28	240	360	228
		L-61F3-800	8"	44.5	30	217	326	312
		L-61F3-1000	10"	47.75	30.25	165	248	345
		L-61F3-1200	12"	53.5	33	155	233	399

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
 www.meproductsco.com

Customer:	Seismic Connector Dog-leg ASA Flanged		
Project:	Dwg# L61F3		
	Date: 5/15/2005		
Approval:	Dwg By: EM	Rev:	B



A	ASA Steel Plate Flange 150# Drill
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

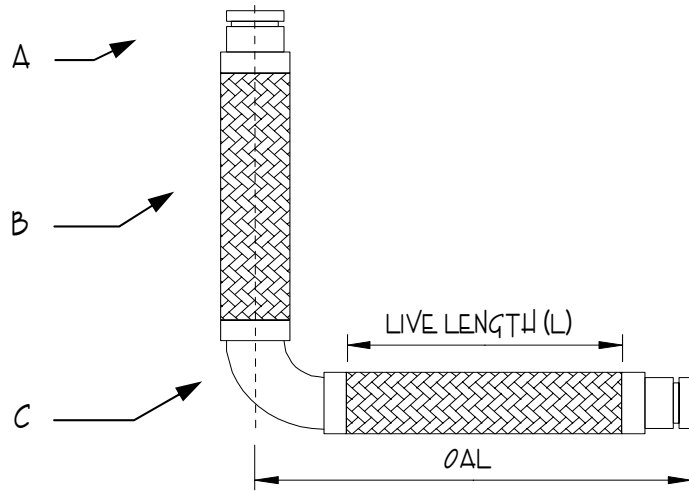
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2008F  
 Allowable Movement +/- 4" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61F4-200	2"	25	20	370	555	82
		L-61F4-250	2-1/2"	29.25	23	570	855	86
		L-61F4-300	3"	32	25	450	675	93
		L-61F4-400	4"	34.5	26	285	428	127
		L-61F4-500	5"	37.25	27.25	210	315	214
		L-61F4-600	6"	43.75	32.25	240	360	228
		L-61F4-800	8"	49.25	34.75	217	326	312
		L-61F4-1000	10"	52.5	35	165	248	345
		L-61F4-1200	12"	58.75	38.25	155	233	399

**ME Products Company**  
 MacKays Engineered Products  
 PH: 760-918-0122 FX: 760-918-0125  
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Customer:	Seismic Connector Dog-leg ASA Flanged		
Project:	Dwg#	L61F4	
	Date:	5/15/2005	
Approval:	Dwg By:	EM	Rev: B



A	s40 Steel Grooved End
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

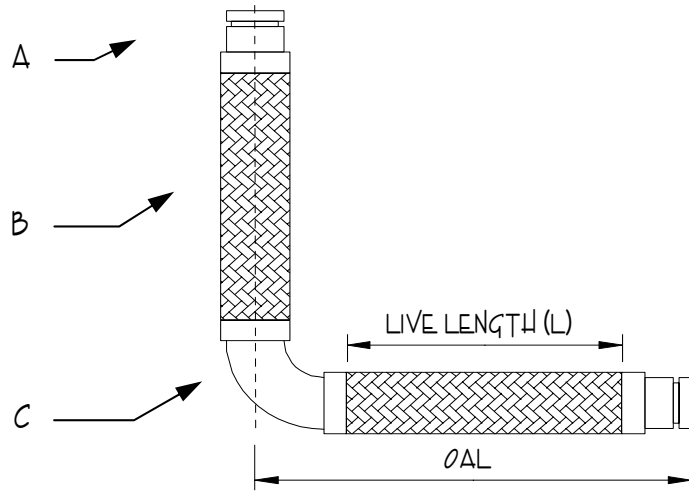
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2004G  
 Allowable Movement +/- 2" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61G2-200	2"	24.5	14	370	555	82
		L-61G2-250	2-1/2"	27.75	16	570	855	86
		L-61G2-300	3"	30	17.5	450	675	93
		L-61G2-400	4"	32.25	18.25	285	428	127
		L-61G2-500	5"	34.5	19	210	315	214
		L-61G2-600	6"	41	24	240	360	228
		L-61G2-800	8"	46.5	24.5	217	326	312
		L-61G2-1000	10"	50	25	165	248	345
		L-61G2-1200	12"	55	27	155	233	399

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Customer:	Seismic Connector Dog-leg Steel Grooved end		
Project:	Dwg#	L61G2	
	Date:	5/15/2005	
Approval:	Dwg By:	EM	Rev: B



A	s40 Steel Grooved End
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

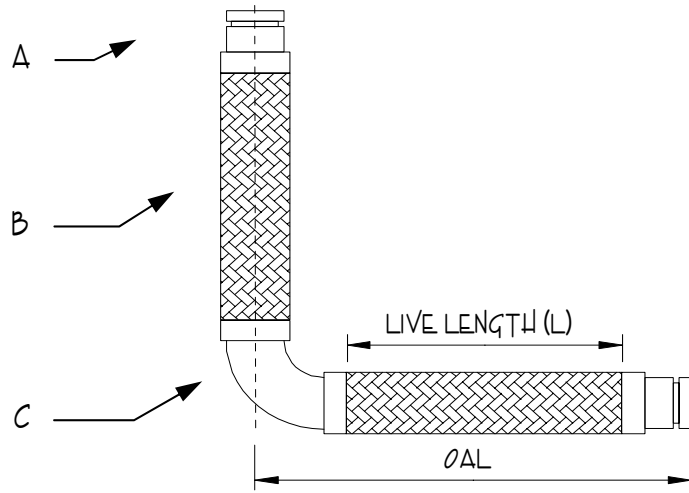
- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2006G  
 Allowable Movement +/- 3" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61G3-200	2"	27.75	17.25	370	555	82
		L-61G3-250	2-1/2"	31.5	19.75	570	855	86
		L-61G3-300	3"	34	21.5	450	675	93
		L-61G3-400	4"	36.25	22.25	285	428	127
		L-61G3-500	5"	39	23.5	210	315	214
		L-61G3-600	6"	45	28	240	360	228
		L-61G3-800	8"	52	30	217	326	312
		L-61G3-1000	10"	55.25	30.25	165	248	345
		L-61G3-1200	12"	61	33	155	233	399

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Customer:	Seismic Connector Dog-leg Steel Grooved end		
Project:	Dwg#	L61G3	
	Date:	5/15/2005	
Approval:	Dwg By:	EM	Rev: B



A	s40 Steel Grooved End
B	T300 Series SS Hose and Braid
C	S40 Steel 90° Elbow

- (1) Spring force calculated at 150 psi.
- (2) OAL is approximate due to fitting tolerances.

Replaces Series L2008G  
 Allowable Movement +/- 4" in all planes

Reference	Qty	Model #	Pipe Size	OAL (2)(in.)	L (in.)	Pressures 70°F		Spring(1) Force lbs
						Operating	Test	
		L-61G4-200	2"	30.5	20	370	555	82
		L-61G4-250	2-1/2"	34.75	23	570	855	86
		L-61G4-300	3"	37.5	25	450	675	93
		L-61G4-400	4"	40	26	285	428	127
		L-61G4-500	5"	42.75	27.25	210	315	214
		L-61G4-600	6"	49.25	32.25	240	360	228
		L-61G4-800	8"	56.75	34.75	217	326	312
		L-61G4-1000	10"	60	35	165	248	345
		L-61G4-1200	12"	66.25	38.25	155	233	399

**ME Products Company**  
 MacKays Engineered Products  
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Customer:	Seismic Connector Dog-leg Steel Grooved end		
Project:	Dwg#	L61G4	
	Date:	5/15/2005	
Approval:	Dwg By:	EM	Rev: B