

METAL EXPANSION JOINTS

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METAL EXPANSION JOINTS

Model MNLC Dual

Expansion joints with low corrugation.

The MNLC Dual Expansion Joints provide greater compression than the standard MNLC expansion joint and are the perfect balance between value and performance. Three pressure ratings available. Non-standard designs are also easily available.

Maximum Working Pressure: 50/150/300 psi

Working Temperature: 800°F

Test Pressure: 75/225/450 psi

End Fittings:

Flanges: ANSI B16.5

Weld Ends: A 53 / A 106

Bellows: T316 S/S

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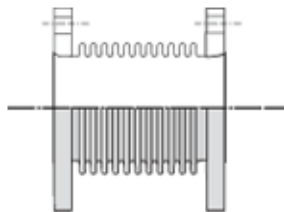
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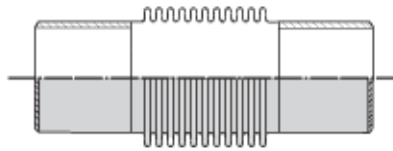
Model MNLC



Model MNLC Dual



FLANGED END



WELD END

Flanged end, long, 50 PSI

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC50FL0200D	2	Long	1.75	0.3125	22.25	13	50	800	75	6	315	CAD
MNLC50FL0250D	2.5	Long	1.75	0.3125	22.625	16	50	800	75	9	299	CAD
MNLC50FL0300D	3	Long	2	0.375	23	18	50	800	75	12	231	CAD
MNLC50FL0400D	4	Long	2.5	0.5	26.5	28	50	800	75	19	399	CAD
MNLC50FL0500D	5	Long	2.5	0.375	27.5	34	50	800	75	29	465	CAD
MNLC50FL0600D	6	Long	2.5	0.375	28	48	50	800	75	40	549	CAD
MNLC50FL0800D	8	Long	3	0.6875	31.375	71	50	800	75	66	609	CAD
MNLC50FL1000D	10	Long	3.375	0.75	33.6	52	50	800	75	104	750	CAD
MNLC50FL1200D	12	Long	3.25	0.75	31.75	85	50	800	75	146	435	CAD

Weld end, long, 50 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC50WL0200D	2	Long	1.75	0.3125	22.5	4	50	800	75	6	315	CAD
MNLC50WL0250D	2.5	Long	1.75	0.3125	25.5	4	50	800	75	9	299	CAD
MNLC50WL0300D	3	Long	2	0.375	26	6	50	800	75	12	231	CAD
MNLC50WL0400D	4	Long	2.5	0.5	29.5	9	50	800	75	19	399	CAD
MNLC50WL0500D	5	Long	2.5	0.375	30.5	15	50	800	75	29	465	CAD
MNLC50WL0600D	6	Long	2.5	0.375	31	20	50	800	75	40	549	CAD
MNLC50WL0800D	8	Long	3	0.6875	34.25	26	50	800	75	66	609	CAD
MNLC50WL1000D	10	Long	3.375	0.75	36.5	32	50	800	75	104	750	CAD
MNLC50WL1200D	12	Long	3.25	0.75	34.5	42	50	800	75	146	435	CAD

Flanged end, short, 50 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC50FS0200D	2	Short	1.125	0.1875	18.375	11	50	800	75	6	590	CAD
MNLC50FS0250D	2.5	Short	1	0.1875	18.875	14	50	800	75	9	498	CAD
MNLC50FS0300D	3	Short	1	0.1875	19.875	17	50	800	75	12	345	CAD
MNLC50FS0400D	4	Short	1.25	0.25	20.125	27	50	800	75	19	800	CAD
MNLC50FS0500D	5	Short	1.25	0.125	20.25	33	50	800	75	29	985	CAD
MNLC30FS0600D	6	Short	1.25	0.125	21	43	50	800	75	40	1170	CAD
MNLC50FS0800D	8	Short	1.5	0.1875	23.375	64	50	800	75	66	1220	CAD
MNLC50FS1000D	10	Short	1.5	0.1875	23.5	45	50	800	75	104	1655	CAD
MNLC50FS1200D	12	Short	1.5	0.1875	24.25	70	50	800	75	146	784	CAD

Weld end, short, 50 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC50WS0200D	2	Short	1.125	0.1875	21.75	3	50	800	75	6	590	CAD
MNLC50WS0250D	2.5	Short	1	0.1875	21.75	3	50	800	75	9	498	CAD
MNLC50WS0300D	3	Short	1	0.1875	23	5	50	800	75	12	345	CAD
MNLC50WS0400D	4	Short	1.25	0.25	23.25	8	50	800	75	19	800	CAD
MNLC50WS0500D	5	Short	1.25	0.125	23.25	13	50	800	75	29	985	CAD
MNLC50WS0600D	6	Short	1.25	0.125	24	18	50	800	75	40	1170	CAD
MNLC50WS0800D	8	Short	1.5	0.1875	26.25	22	50	800	75	66	1220	CAD
MNLC50WS1000D	10	Short	1.5	0.1875	26.25	25	50	800	75	104	1655	CAD
MNLC50WS1200D	12	Short	1.5	0.1875	27	35	50	800	75	146	784	CAD

Flanged end, long, 150 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC15FL0200D	2	Long	1.75	0.3125	22.25	13	150	800	225	6	320	CAD
MNLC15FL0250D	2.5	Long	1.75	0.3125	22.625	16	150	800	225	9	299	CAD
MNLC15FL0300D	3	Long	2	0.5	23	21	150	800	225	12	240	CAD
MNLC15FL0400D	4	Long	2.5	0.5	26.5	38	150	800	225	19	406	CAD
MNLC15FL0500D	5	Long	2.5	0.375	27.5	49	150	800	225	29	480	CAD
MNLC15FL0600D	6	Long	2.5	0.375	28	90	150	800	225	40	555	CAD
MNLC15FL0800D	8	Long	3	0.6875	31.375	125	150	800	225	66	620	CAD
MNLC15FL1000D	10	Long	3.25	0.75	33.6	170	150	800	225	104	760	CAD
MNLC15FL1200D	12	Long	3.125	0.75	31.75	220	150	800	225	146	957	CAD

Weld end, long, 150 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC15WL0200D	2	Long	1.75	0.3125	22.5	4	150	800	225	6	320	CAD
MNLC15WL0250D	2.5	Long	1.75	0.3125	25.5	4	150	800	225	9	299	CAD

MNLC15WL0300D	3	Long	2	0.5	26	6	150	800	225	12	240	CAD
MNLC15WL0400D	4	Long	2.5	0.5	29.5	10	150	800	225	19	406	CAD
MNLC15WL0500D	5	Long	2.5	0.375	30.5	16	150	800	225	29	480	CAD
MNLC15WL0600D	6	Long	2.5	0.375	31	21	150	800	225	40	555	CAD
MNLC15WL0800D	8	Long	3	0.6875	34.25	27	150	800	225	66	620	CAD
MNLC15WL1000D	10	Long	3.25	0.75	36.5	34	150	800	225	104	760	CAD
MNLC15WL1200D	12	Long	3.125	0.75	34.5	44	150	800	225	146	957	CAD

Flanged end, short, 150 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC15FS0200D	2	Short	1.125	0.3125	18.375	11	150	800	225	6	595	CAD
MNLC15FS0250D	2.5	Short	1	0.3125	18.875	15	150	800	225	9	498	CAD
MNLC15FS0300D	3	Short	1	0.1875	19.875	20	150	800	225	12	349	CAD
MNLC15FS0400D	4	Short	1.25	0.25	20.125	35	150	800	225	19	803	CAD
MNLC15FS0500D	5	Short	1.25	0.125	20.25	45	150	800	225	29	987	CAD
MNLC15FS0600D	6	Short	1.25	0.125	21	85	150	800	225	40	1181	CAD
MNLC15FS0800D	8	Short	1.5	0.3125	23.375	120	150	800	225	66	1235	CAD
MNLC15FS1000D	10	Short	1.5	0.31258	23.5	160	150	800	225	104	1669	CAD
MNLC15FS1200D	12	Short	1.5	0.3125	24.25	200	150	800	225	146	1815	CAD

Weld end, short, 150 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC15WS0200D	2	Short	1.125	0.3125	21.75	3	150	800	225	6	595	CAD
MNLC15WS0250D	2.5	Short	1	0.3125	21.75	3	150	800	225	9	498	CAD
MNLC15WS0300D	3	Short	1	0.1875	23	5	150	800	225	12	349	CAD
MNLC15WS0400D	4	Short	1.25	0.25	23.25	8	150	800	225	19	803	CAD
MNLC15WS0500D	5	Short	1.25	0.125	23.25	14	150	800	225	29	987	CAD
MNLC15WS0600D	6	Short	1.25	0.125	24	19	150	800	225	40	1181	CAD
MNLC15WS0800D	8	Short	1.5	0.3125	26.25	23	150	800	225	66	1235	CAD
MNLC15WS1000D	10	Short	1.5	0.31258	26.25	26	150	800	225	104	1669	CAD
MNLC15WS1200D	12	Short	1.5	0.3125	27	37	150	800	225	146	1815	CAD

Flanged end, long, 300 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC30FL0200D	2	Long	1.25	0.25	22.25	14	300	800	450	6	453	CAD
MNLC30FL0250D	2.5	Long	1.25	0.25	22.625	17	300	800	450	9	425	CAD
MNLC30FL0300D	3	Long	1.375	0.3125	23	22	300	800	450	12	759	CAD
MNLC30FL0400D	4	Long	1.75	0.375	26.5	40	300	800	450	19	888	CAD
MNLC30FL0500D	5	Long	1.75	0.3125	27.5	51	300	800	450	29	961	CAD
MNLC30FL0600D	6	Long	1.75	0.3125	28	94	300	800	450	40	1146	CAD
MNLC30FL0800D	8	Long	2	0.375	31.375	131	300	800	450	66	1395	CAD
MNLC30FL1000D	10	Long	2.5	0.5	33.6	179	300	800	450	104	1226	CAD
MNLC30FL1200D	12	Long	2.25	0.375	31.75	231	300	800	450	146	2293	CAD

Weld end, long, 300 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC30WL0200D	2	Long	1.25	0.25	22.5	4	300	800	450	6	453	CAD
MNLC30WL0250D	2.5	Long	1.25	0.25	25.5	4	300	800	450	9	425	CAD
MNLC30WL0300D	3	Long	1.375	0.3125	26	6	300	800	450	12	759	CAD
MNLC30WL0400D	4	Long	1.75	0.375	29.5	9	300	800	450	19	888	CAD
MNLC30WL0500D	5	Long	1.75	0.3125	30.5	17	300	800	450	29	961	CAD
MNLC30WL0600D	6	Long	1.75	0.3125	31	22	300	800	450	40	1146	CAD
MNLC30WL0800D	8	Long	2	0.375	34.25	29	300	800	450	66	1395	CAD
MNLC30WL1000D	10	Long	2.5	0.5	36.5	35	300	800	450	104	1226	CAD

MNLC30WL1200D	12	Long	2.25	0.375	34.5	46	300	800	450	146	2293	CAD
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Flanged end, short, 300 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC30FS0200D	2	Short	0.75	0.125	18.375	11	300	800	450	6	731	CAD
MNLC30FS0250D	2.5	Short	0.75	0.125	18.875	16	300	800	450	9	725	CAD
MNLC30FS0300D	3	Short	0.75	0.125	19.875	21	300	800	450	12	1138	CAD
MNLC30FS0400D	4	Short	0.875	0.1875	20.125	37	300	800	450	19	1775	CAD
MNLC30FS0500D	5	Short	0.75	0.0625	20.25	47	300	800	450	29	2059	CAD
MNLC30FS0600D	6	Short	0.75	0.0625	21	89	300	800	450	40	2456	CAD
MNLC30FS0800D	8	Short	1	0.125	23.375	126	300	800	450	66	2791	CAD
MNLC30FS1000D	10	Short	1	0.125	23.5	168	300	800	450	104	2996	CAD
MNLC30FS1200D	12	Short	1	0.125	24.25	210	300	800	450	146	4586	CAD

Weld end, short, 300 PSI [Top](#)

Part No	Nom size	Style	Compression Inches Each Side	Lateral Inches	OAL	Weight lbs	Max Working Pressure PSIG	Max Working Temp Deg F.	Max Test Pressure PSIG	Effective Area Sq In	Spring Rate lbs/inch	3D Drawing
MNLC30WS0200D	2	Short	0.75	0.125	21.75	3	300	800	450	6	731	CAD
MNLC30WS0250D	2.5	Short	0.75	0.125	21.75	3	300	800	450	9	725	CAD
MNLC30WS0300D	3	Short	0.75	0.125	23	5	300	800	450	12	1138	CAD
MNLC30WS0400D	4	Short	0.875	0.1875	23.25	9	300	800	450	19	1775	CAD
MNLC30WS0500D	5	Short	0.75	0.0625	23.25	14	300	800	450	29	2059	CAD
MNLC30WS0600D	6	Short	0.75	0.0625	24	19	300	800	450	40	2456	CAD
MNLC30WS0800D	8	Short	1	0.125	26.25	23	300	800	450	66	2791	CAD
MNLC30WS1000D	10	Short	1	0.125	26.25	26	300	800	450	104	2996	CAD
MNLC30WS1200D	12	Short	1	0.125	27	35	300	800	450	146	4586	CAD

[Top](#)