

METAL EXPANSION JOINTS

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METAL EXPANSION JOINTS

Model MNLC

Expansion joints with low corrugation.

The MNLC Expansion Joints provide perfect balance between value and performance. With two standard lengths and three pressure ratings available, they can be delivered quickly. Non-standard designs are also easily available.

Maximum Working Pressure: 50/150/300 psi

Working Temperature: 850°F

Test Pressure: 75/225/450 psi

End Fittings:

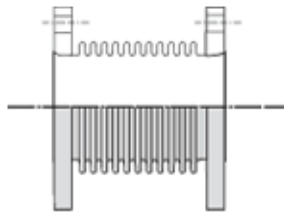
Flanges: ANSI B16.5

Weld Ends: A 53 / A 106

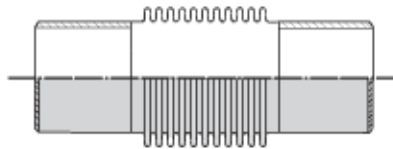
Bellows: T316 S/S

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FLANGED END



WELD END

Flanged end, long, 50 PSI

Part No	Nom size	Style	Compression Inches	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
MNLC50FL0200	2	Long	1.75	0.3125	8.5	13	50	800	75	6	315	CAD
MNLC50FL0250	2.5	Long	1.75	0.3125	8.875	16	50	800	75	9	299	CAD
MNLC50FL0300	3	Long	2	0.375	9	18	50	800	75	12	231	CAD
MNLC50FL0400	4	Long	2.5	0.5	10.75	28	50	800	75	19	399	CAD
MNLC50FL0500	5	Long	2.5	0.375	11.25	34	50	800	75	29	465	CAD
MNLC50FL0600	6	Long	2.5	0.375	11.5	48	50	800	75	40	549	CAD
MNLC50FL0800	8	Long	3	0.6875	13.25	71	50	800	75	66	609	CAD
MNLC50FL1000	10	Long	3.375	0.75	14.375	52	50	800	75	104	750	CAD
MNLC50FL1200	12	Long	3.25	0.75	13.5	85	50	800	75	146	435	CAD

MNLC50FL1400	14	Long	3.5	0.75	15	112	50	800	75	183	1100	CAD
MNLC50FL1600	16	Long	3.5	0.75	16.75	127	50	800	75	237	860	CAD
MNLC50FL1800	18	Long	3.5	0.75	17	123	50	800	75	298	820	CAD
MNLC50FL2000	20	Long	3.5	0.75	18.875	146	50	800	75	362	980	CAD
MNLC50FL2200	22	Long	3.5	0.75	19.5	157	50	800	75	434	1020	CAD
MNLC50FL2400	24	Long	3.5	0.75	19.75	240	50	800	75	512	1230	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC50WL0200	2	Long	1.75	0.3125	11.75	4	50	800	75	6	315	CAD
MNLC50WL0250	2.5	Long	1.75	0.3125	11.75	4	50	800	75	9	299	CAD
MNLC50WL0300	3	Long	2	0.375	12	6	50	800	75	12	231	CAD
MNLC50WL0400	4	Long	2.5	0.5	13.75	9	50	800	75	19	399	CAD
MNLC50WL0500	5	Long	2.5	0.375	14.25	15	50	800	75	29	465	CAD
MNLC50WL0600	6	Long	2.5	0.375	14.5	20	50	800	75	40	549	CAD
MNLC50WL0800	8	Long	3	0.6875	16.125	26	50	800	75	66	609	CAD
MNLC50WL1000	10	Long	3.375	0.75	17.25	32	50	800	75	104	750	CAD
MNLC50WL1200	12	Long	3.25	0.75	16.25	42	50	800	75	146	435	CAD
MNLC50WL1400	14	Long	3.5	0.75	18.75	70	50	800	75	183	1100	CAD
MNLC50WL1600	16	Long	3.5	0.75	20.5	77	50	800	75	237	860	CAD
MNLC50WL1800	18	Long	3.5	0.75	20.5	68	50	800	75	298	820	CAD
MNLC50WL2000	20	Long	3.5	0.75	20.5	88	50	800	75	362	980	CAD
MNLC50WL2200	22	Long	3.5	0.75	20.5	95	50	800	75	434	1020	CAD
MNLC50WL2400	24	Long	3.5	0.75	20.5	108	50	800	75	512	1230	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC50FS0200	2	Short	1.125	0.1875	6.5	11	50	800	75	6	590	CAD
MNLC50FS0250	2.5	Short	1	0.1875	7	14	50	800	75	9	498	CAD
MNLC50FS0300	3	Short	1	0.1875	7.375	17	50	800	75	12	345	CAD
MNLC50FS0400	4	Short	1.25	0.25	7.5	27	50	800	75	19	800	CAD
MNLC50FS0500	5	Short	1.25	0.125	7.625	33	50	800	75	29	985	CAD
MNLC30FS0600	6	Short	1.25	0.125	8	43	50	800	75	40	1170	CAD
MNLC50FS0800	8	Short	1.5	0.1875	9.25	64	50	800	75	66	1220	CAD
MNLC50FS1000	10	Short	1.5	0.1875	9.375	45	50	800	75	104	1655	CAD
MNLC50FS1200	12	Short	1.5	0.1875	9.75	70	50	800	75	146	784	CAD
MNLC50FS1400	14	Short	1.75	0.125	10.375	98	50	800	75	183	2200	CAD
MNLC50FS1600	16	Short	1.75	0.125	11.25	112	50	800	75	237	1720	CAD
MNLC50FS1800	18	Short	1.75	0.125	11.5	112	50	800	75	298	1640	CAD
MNLC50FS2000	20	Short	1.75	0.125	13.375	130	50	800	75	362	1960	CAD
MNLC50FS2200	22	Short	1.75	0.125	14	140	50	800	75	434	2040	CAD
MNLC50FS2400	24	Short	1.75	0.125	14.25	220	50	800	75	512	2460	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC50WS0200	2	Short	1.125	0.1875	9.875	3	50	800	75	6	590	CAD
MNLC50WS0250	2.5	Short	1	0.1875	9.875	3	50	800	75	9	498	CAD
MNLC50WS0300	3	Short	1	0.1875	10.5	5	50	800	75	12	345	CAD
MNLC50WS0400	4	Short	1.25	0.25	10.625	8	50	800	75	19	800	CAD
MNLC50WS0500	5	Short	1.25	0.125	10.625	13	50	800	75	29	985	CAD
MNLC50WS0600	6	Short	1.25	0.125	11	18	50	800	75	40	1170	CAD
MNLC50WS0800	8	Short	1.5	0.1875	12.125	22	50	800	75	66	1220	CAD
MNLC50WS1000	10	Short	1.5	0.1875	12.125	25	50	800	75	104	1655	CAD
MNLC50WS1200	12	Short	1.5	0.1875	12.5	35	50	800	75	146	784	CAD
MNLC50WS1400	14	Short	1.75	0.125	14.125	56	50	800	75	183	2200	CAD

MNLC50WS1600	16	Short	1.75	0.125	15	62	50	800	75	237	1720	CAD
MNLC50WS1800	18	Short	1.75	0.125	15	57	50	800	75	298	1640	CAD
MNLC50WS2000	20	Short	1.75	0.125	15	72	50	800	75	362	1960	CAD
MNLC50WS2200	22	Short	1.75	0.125	15	78	50	800	75	434	2040	CAD
MNLC50WS2400	24	Short	1.75	0.125	15	88	50	800	75	512	2460	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC15FL0200	2	Long	1.75	0.3125	8.5	13	150	800	225	6	320	CAD
MNLC15FL0250	2.5	Long	1.75	0.3125	8.875	16	150	800	225	9	299	CAD
MNLC15FL0300	3	Long	2	0.5	9	21	150	800	225	12	240	CAD
MNLC15FL0400	4	Long	2.5	0.5	10.75	38	150	800	225	19	406	CAD
MNLC15FL0500	5	Long	2.5	0.375	11.25	49	150	800	225	29	480	CAD
MNLC15FL0600	6	Long	2.5	0.375	11.5	90	150	800	225	40	555	CAD
MNLC15FL0800	8	Long	3	0.6875	13.25	125	150	800	225	66	620	CAD
MNLC15FL1000	10	Long	3.25	0.75	14.375	170	150	800	225	104	760	CAD
MNLC15FL1200	12	Long	3.125	0.75	13.5	220	150	800	225	146	957	CAD
MNLC15FL1400	14	Long	3	0.625	15	240	150	800	225	183	1990	CAD
MNLC15FL1600	16	Long	3	0.5	16.75	250	150	800	225	237	1680	CAD
MNLC15FL1800	18	Long	3	0.5	17	314	150	800	225	298	2600	CAD
MNLC15FL2000	20	Long	3	0.5	18.875	402	150	800	225	362	2800	CAD
MNLC15FL2200	22	Long	3	0.5	19.5	454	150	800	225	434	2850	CAD
MNLC15FL2400	24	Long	3	0.5	19.75	520	150	800	225	512	3030	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC15WL0200	2	Long	1.75	0.3125	11.75	4	150	800	225	6	320	CAD
MNLC15WL0250	2.5	Long	1.75	0.3125	11.75	4	150	800	225	9	299	CAD
MNLC15WL0300	3	Long	2	0.5	12	6	150	800	225	12	240	CAD
MNLC15WL0400	4	Long	2.5	0.5	13.75	10	150	800	225	19	406	CAD
MNLC15WL0500	5	Long	2.5	0.375	14.25	16	150	800	225	29	480	CAD
MNLC15WL0600	6	Long	2.5	0.375	14.5	21	150	800	225	40	555	CAD
MNLC15WL0800	8	Long	3	0.6875	16.125	27	150	800	225	66	620	CAD
MNLC15WL1000	10	Long	3.25	0.75	17.25	34	150	800	225	104	760	CAD
MNLC15WL1200	12	Long	3.125	0.75	16.25	44	150	800	225	146	957	CAD
MNLC15WL1400	14	Long	3	0.625	18.75	88	150	800	225	183	1990	CAD
MNLC25WL1600	16	Long	3	0.5	20.5	86	150	800	225	237	1680	CAD
MNLC15WL1800	18	Long	3	0.5	20.5	89	150	800	225	298	2600	CAD
MNLC15WL2000	20	Long	3	0.5	20.5	112	150	800	225	362	2800	CAD
MNLC15WL2200	22	Long	3	0.5	20.5	128	150	800	225	434	2850	CAD
MNLC15EL2400	24	Long	3	0.5	20.5	150	150	800	225	512	3030	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC15FS0200	2	Short	1.125	0.3125	6.5	11	150	800	225	6	595	CAD
MNLC15FS0250	2.5	Short	1	0.3125	7	15	150	800	225	9	498	CAD
MNLC15FS0300	3	Short	1	0.1875	7.375	20	150	800	225	12	349	CAD
MNLC15FS0400	4	Short	1.25	0.25	7.5	35	150	800	225	19	803	CAD
MNLC15FS0500	5	Short	1.25	0.125	7.625	45	150	800	225	29	987	CAD
MNLC15FS0600	6	Short	1.25	0.125	8	85	150	800	225	40	1181	CAD
MNLC15FS0800	8	Short	1.5	0.3125	9.25	120	150	800	225	66	1235	CAD
MNLC15FS1000	10	Short	1.5	0.3125	9.375	160	150	800	225	104	1669	CAD
MNLC15FS1200	12	Short	1.5	0.3125	9.75	200	150	800	225	146	1815	CAD
MNLC15FS1400	14	Short	1.5	0.125	10.375	220	150	800	225	183	3960	CAD
MNLC15FS1600	16	Short	1.5	0.0625	11.25	232	150	800	225	237	3360	CAD

MNLC15FS1800	18	Short	1.5	0.0625	11.5	296	150	800	225	298	5200	CAD
MNLC15FS2000	20	Short	1.5	0.0625	13.375	378	150	800	225	362	5600	CAD
MNLC15FS2200	22	Short	1.5	0.0625	14	426	150	800	225	434	5700	CAD
MNLC15FS2400	24	Short	1.5	0.0625	14.25	495	150	800	225	512	6100	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC15WS0200	2	Short	1.125	0.3125	9.875	3	150	800	225	6	595	CAD
MNLC15WS0250	2.5	Short	1	0.3125	9.875	3	150	800	225	9	498	CAD
MNLC15WS0300	3	Short	1	0.1875	10.5	5	150	800	225	12	349	CAD
MNLC15WS0400	4	Short	1.25	0.25	10.625	8	150	800	225	19	803	CAD
MNLC15WS0500	5	Short	1.25	0.125	10.625	14	150	800	225	29	987	CAD
MNLC15WS0600	6	Short	1.25	0.125	11	19	150	800	225	40	1181	CAD
MNLC15WS0800	8	Short	1.5	0.3125	12.125	23	150	800	225	66	1235	CAD
MNLC15WS1000	10	Short	1.5	0.3125	12.125	26	150	800	225	104	1669	CAD
MNLC15WS1200	12	Short	1.5	0.3125	12.5	37	150	800	225	146	1815	CAD
MNLC15WS1400	14	Short	1.5	0.125	14.125	68	150	800	225	183	3960	CAD
MNLC15WS1600	16	Short	1.5	0.0625	15	68	150	800	225	237	3360	CAD
MNLC15WS1800	18	Short	1.5	0.0625	15	71	150	800	225	298	5200	CAD
MNLC15W2000	20	Short	1.5	0.0625	15	88	150	800	225	362	5600	CAD
MNLC15WS2200	22	Short	1.5	0.0625	15	100	150	800	225	434	5700	CAD
MNLC15WS2400	24	Short	1.5	0.0625	15	116	150	800	225	512	6100	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC30FL0200	2	Long	1.25	0.25	8.5	14	300	800	450	6	453	CAD
MNLC30FL0250	2.5	Long	1.25	0.25	8.875	17	300	800	450	9	425	CAD
MNLC30FL0300	3	Long	1.375	0.3125	9	22	300	800	450	12	759	CAD
MNLC30FL0400	4	Long	1.75	0.375	10.75	40	300	800	450	19	888	CAD
MNLC30FL0500	5	Long	1.75	0.3125	11.25	51	300	800	450	29	961	CAD
MNLC30FL0600	6	Long	1.75	0.3125	11.5	94	300	800	450	40	1146	CAD
MNLC30FL0800	8	Long	2	0.375	13.25	131	300	800	450	66	1395	CAD
MNLC30FL1000	10	Long	2.5	0.5	14.375	179	300	800	450	104	1226	CAD
MNLC30FL1200	12	Long	2.25	0.375	13.5	231	300	800	450	146	2293	CAD
MNLC30FL1400	14	Long	2	0.375	15	414	300	800	450	183	2560	CAD
MNLC30FL1600	16	Long	3	0.375	16.75	470	300	800	450	237	2120	CAD
MNLC30FL1800	18	Long	3	0.375	17	598	300	800	450	298	3240	CAD
MNLC30FL2000	20	Long	3	0.375	18.875	750	300	800	450	362	3600	CAD
MNLC30FL2200	22	Long	3	0.375	19.5	875	300	800	450	434	5900	CAD
MNLC30FL2400	24	Long	3	0.375	19.75	1070	300	800	450	512	6200	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC30WL0200	2	Long	1.25	0.25	11.75	4	300	800	450	6	453	CAD
MNLC30WL0250	2.5	Long	1.25	0.25	11.75	4	300	800	450	9	425	CAD
MNLC30WL0300	3	Long	1.375	0.3125	12	6	300	800	450	12	759	CAD
MNLC30WL0400	4	Long	1.75	0.375	13.75	9	300	800	450	19	888	CAD
MNLC30WL0500	5	Long	1.75	0.3125	14.25	17	300	800	450	29	961	CAD
MNLC30WL0600	6	Long	1.75	0.3125	14.5	22	300	800	450	40	1146	CAD
MNLC30WL0800	8	Long	2	0.375	16.125	29	300	800	450	66	1395	CAD
MNLC30WL1000	10	Long	2.5	0.5	17.25	35	300	800	450	104	1226	CAD
MNLC30WL1200	12	Long	2.25	0.375	16.25	46	300	800	450	146	2293	CAD
MNLC30WL1400	14	Long	2	0.375	18.75	160	300	800	450	183	2560	CAD
MNLC30WL1600	16	Long	3	0.375	20.5	122	300	800	450	237	2120	CAD
MNLC30WL1800	18	Long	3	0.375	20.5	131	300	800	450	298	3240	CAD

MNLC30WL2000	20	Long	3	0.375	20.5	173	300	800	450	362	3600	CAD
MNLC30WL2200	22	Long	3	0.375	20.5	202	300	800	450	434	5900	CAD
MNLC30WL2400	24	Long	3	0.375	20.5	220	300	800	450	512	6200	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC30FS0200	2	Short	0.75	0.125	6.5	11	300	800	450	6	731	CAD
MNLC30FS0250	2.5	Short	0.75	0.125	7	16	300	800	450	9	725	CAD
MNLC30FS0300	3	Short	0.75	0.125	7.375	21	300	800	450	12	1138	CAD
MNLC30FS0400	4	Short	0.875	0.1875	7.5	37	300	800	450	19	1775	CAD
MNLC30FS0500	5	Short	0.75	0.0625	7.625	47	300	800	450	29	2059	CAD
MNLC30FS0600	6	Short	0.75	0.0625	8	89	300	800	450	40	2456	CAD
MNLC30FS0800	8	Short	1	0.125	9.25	126	300	800	450	66	2791	CAD
MNLC30FS1000	10	Short	1	0.125	9.375	168	300	800	450	104	2996	CAD
MNLC30FS1200	12	Short	1	0.125	9.75	210	300	800	450	146	4586	CAD
MNLC30FS1400	14	Short	1	0.0625	10.375	386	300	800	450	183	5120	CAD
MNLC30FS1600	16	Short	1.5	0.0625	11.25	440	300	800	450	237	4240	CAD
MNLC30FS1800	18	Short	1.5	0.0625	11.5	564	300	800	450	298	6500	CAD
MNLC30FS2000	20	Short	1.5	0.0625	13.375	710	300	800	450	362	7130	CAD
MNLC30FS2200	22	Short	1.5	0.0625	14	830	300	800	450	434	11800	CAD
MNLC30FS2400	24	Short	1.5	0.0625	14.25	1030	300	800	450	512	12300	CAD

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

Part No	Nom size	Style	Compression Inches	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
MNLC30WS0200	2	Short	0.75	0.125	9.875	3	300	800	450	6	731	CAD
MNLC30WS0250	2.5	Short	0.75	0.125	9.875	3	300	800	450	9	725	CAD
MNLC30WS0300	3	Short	0.75	0.125	10.5	5	300	800	450	12	1138	CAD
MNLC30WS0400	4	Short	0.875	0.1875	10.625	9	300	800	450	19	1775	CAD
MNLC30WS0500	5	Short	0.75	0.0625	10.625	14	300	800	450	29	2059	CAD
MNLC30WS0600	6	Short	0.75	0.0625	11	19	300	800	450	40	2456	CAD
MNLC30WS0800	8	Short	1	0.125	12.125	23	300	800	450	66	2791	CAD
MNLC30WS1000	10	Short	1	0.125	12.125	26	300	800	450	104	2996	CAD
MNLC30WS1200	12	Short	1	0.125	12.5	35	300	800	450	146	4586	CAD
MNLC30WS1400	14	Short	1	0.0625	14.125	132	300	800	450	183	5120	CAD
MNLC30WS1600	16	Short	1.5	0.0625	15	92	300	800	450	237	4240	CAD
MNLC30WS1800	18	Short	1.5	0.0625	15	99	300	800	450	298	6500	CAD
MNLC30WS2000	20	Short	1.5	0.0625	15	113	300	800	450	362	7130	CAD
MNLC30WS2200	22	Short	1.5	0.0625	15	152	300	800	450	434	11800	CAD
MNLC30WS2400	24	Short	1.5	0.0625	15	220	300	800	450	512	12300	CAD

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