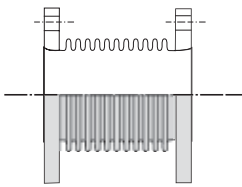


MODEL NLC EXPANSION JOINTS

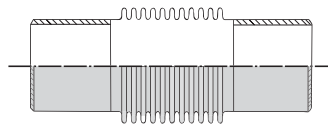
LOW CORRUGATION



The **NLC 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.



FLANGED END



WELD END

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 T304 S/S

For other pressure ratings and materials, contact factory.

SIZE	SHORT/ LONG*	COMPRESSION*			FLANGED ENDS						WELD ENDS					
		50 psi (in)	150 psi (in)	300 psi (in)	50 psi		150 psi		300 psi		50 psi		150 psi		300 psi	
					OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)
2"	S	1-1/8	1-1/8	3/4	6-1/2	11	6-1/2	11	6-1/2	12	9-7/8	3	9-7/8	3	9-7/8	3
	L	1-3/4	1-3/4	1-1/4	8-1/2	13	8-1/2	13	8-1/2	14	11-3/4	4	11-3/4	4	11-3/4	4
2-1/2"	S	1	1	3/4	6-1/2	14	6-1/2	14	6-1/2	16	9-7/8	3	9-7/8	3	9-7/8	3
	L	1-3/4	1-3/4	1-1/4	8-1/2	16	8-1/2	16	8-1/2	17	11-3/4	4	11-3/4	4	11-3/4	4
3"	S	1	1	3/4	7-3/8	17	7-3/8	17	7-3/8	21	10-1/2	5	10-1/2	5	10-1/2	5
	L	2	2	1-3/8	9	18	9	18	9	22	12	6	12	6	12	7
4"	S	1-1/4	1-1/4	7/8	7-1/2	27	7-1/2	27	7-1/2	37	10-5/8	8	10-5/8	8	10-5/8	9
	L	2-1/2	2-1/2	1-3/4	10-3/4	28	10-3/4	28	10-3/4	40	13-3/4	9	13-3/4	10	13-3/4	10
5"	S	1-1/4	1-1/4	3/4	7-5/8	33	7-5/8	33	7-5/8	47	10-5/8	13	10-5/8	14	10-5/8	14
	L	2-1/2	2-1/2	1-3/4	11-1/4	34	11-1/4	34	11-1/4	51	14-1/4	15	14-1/4	16	14-1/4	17
6"	S	1-1/4	1-1/4	3/4	8	43	8	43	8	89	11	18	11	19	11	20
	L	2-1/2	2-1/2	1-3/4	11-1/2	47	11-1/2	47	11-1/2	94	14-1/2	20	14-1/2	21	14-1/2	22
8"	S	1-1/2	1-1/2	1	9-1/4	64	9-1/4	64	9-1/4	126	12-1/8	22	12-1/8	23	12-1/8	24
	L	3	3	2	13-1/4	71	13-1/4	71	13-1/4	131	16-1/8	26	16-1/8	27	16-1/8	29
10"	S	1-1/2	1-1/2	1	9-3/8	45	9-3/8	45	9-3/8	168	12-1/8	25	12-1/8	26	12-1/8	27
	L	3-3/8	3-3/4	2-1/2	14-3/8	52	14-3/8	52	14-3/8	179	17-1/4	32	17-1/4	34	17-1/4	35
12"	S	1-1/2	1-1/2	1	9-3/4	70	9-3/4	125	9-3/4	210	12-1/2	35	12-1/2	37	12-1/2	39
	L	3-1/4	3-1/8	2-1/4	13-1/2	85	13-1/2	150	13-1/2	231	16-1/4	42	16-1/4	44	16-1/4	46

* For lateral movements, consult factory.

** Doubles come with anchor bases and without bases (universal style). Consult factory for doubles information.

SIZE	SHORT/ LONG*	COMPRESSION*			FLANGED ENDS						WELD ENDS					
		50 psi (in)	150 psi (in)	300 psi (in)	50 psi		150 psi		300 psi		50 psi		150 psi		300 psi	
					OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)
14"	S	1-3/4	1-1/2	1	10-3/8	98	10-3/8	220	10-3/8	386	14-1/8	56	14-1/8	62	14-1/8	88
	L	3-1/2	3	2	15	112	15	240	15	414	18-3/4	70	18-3/4	75	18-3/4	106
16"	S	1-3/4	1-1/2	1-1/2	11-1/4	112	11-1/4	232	11-1/4	440	15	62	15	68	15	92
	L	3-1/2	3	3	16-3/4	127	16-3/4	250	16-3/4	470	20-1/2	77	20-1/2	86	20-1/2	122
18"	S	1-3/4	1-1/2	1-1/2	11-1/2	112	11-1/2	296	11-1/2	564	15	57	15	71	15	99
	L	3-1/2	3	3	17	123	17	314	17	598	20-1/2	68	20-1/2	89	20-1/2	131
20"	S	1-3/4	1-1/2	1-1/2	13-3/8	130	13-3/8	378	13-3/8	710	15	72	15	88	15	113
	L	3-1/2	3	3	18-7/8	146	18-7/8	402	18-7/8	750	20-1/2	88	20-1/2	112	20-1/2	173
22"	S	1-3/4	1-1/2	1-1/2	14	140	14	426	14	830	15	78	15	100	15	152
	L	3-1/2	3	3	19-1/2	157	19-1/2	454	19-1/2	875	20-1/2	95	20-1/2	128	20-1/2	202
24"	S	1-3/4	1-1/2	1-1/2	14-1/4	220	14-1/4	495	14-1/4	1030	15	88	15	116	15	180
	L	3-1/2	3	3	19-3/4	240	19-3/4	520	19-3/4	1070	20-1/2	108	20-1/2	150	20-1/2	220
30"	S	1-3/4	1-1/2	-	9	370	9	**	-	-	11-1/2	128	11-1/2	196	-	-
	L	3-1/2	3	-	14-1/2	405	14-1/2	**	-	-	17	162	17	264	-	-
36"	S	1-3/4	1-1/2	-	9	575	9	**	-	-	11-1/2	180	11-1/2	235	-	-
	L	3-1/2	3	-	14-1/2	625	14-1/2	**	-	-	17	230	17	315	-	-
42"	S	1-3/4	1-1/2	-	9	770	9	**	-	-	11-1/2	205	11-1/2	265	-	-
	L	3-1/2	3	-	14-1/2	830	14-1/2	**	-	-	17	355	17	355	-	-
48"	S	1-3/4	1-1/2	-	10-1/2	970	10-1/2	**	-	-	11-1/2	320	11-1/2	320	-	-
	L	3-1/2	3	-	16	1030	16	**	-	-	17	420	17	420	-	-

* This table only shows standard designs. For other movements, lengths, or sizes, contact factory.
** Customer to specify flanges.

ADDITIONAL BELLOWS DATA

SIZE	EFF AREA (sq in)	BELLOWS SPRING CONSTANT (Lbs./Inch)					
		SHORT			LONG		
		50 psi	150 psi	300 psi	50 psi	150 psi	300 psi
2"	6	590	595	731	315	320	453
3"	12	345	349	1138	231	240	759
4"	19	800	803	1775	399	406	888
5"	29	985	987	2059	465	480	961
6"	40	1170	1181	2456	549	555	1146
8"	66	1220	1235	2791	609	620	1395
10"	104	1655	1669	2996	750	760	1226
12"	146	784	1815	4586	435	957	2293
14"	183	2200	3960	5120	1100	1990	2560

SIZE	EFF AREA (sq in)	BELLOWS SPRING CONSTANT (Lbs./Inch)					
		SHORT			LONG		
		50 psi	150 psi	300 psi	50 psi	150 psi	300 psi
16"	237	1720	3360	4240	860	1680	2120
18"	298	1640	5200	6500	820	2600	3240
20"	362	1960	5600	7130	980	2800	3600
22"	434	2040	5700	11800	1020	2850	5900
24"	512	2460	6100	12300	1230	3030	6200
30"	780	4940	10600	NA	2500	5300	NA
36"	1105	5930	12510	NA	3000	6300	NA
42"	1487	6920	13800	NA	3500	6900	NA
48"	1925	7930	15800	NA	4000	7900	NA

* For lateral movements, consult factory.
** Doubles come with anchor bases and without bases (universal style). Consult factory for doubles information.