

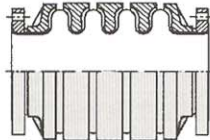


MODEL C EXPANSION JOINTS

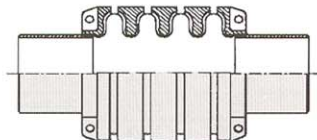
**SELF EQUALIZING,
RING CONTROLLED**



As in the Model N expansion joints, the **Model C** utilizes a hydroformed bellows. It also provides the ultimate in control and safety with self equalizing control rings.



FLANGED END



WELD END

Maximum Working Pressure300 psi*
 Working Temperature500 F
 Test Pressure450 psi
 End Fittings:
 FlangesANSI B16.5
 Weld EndsA 53 / A 106
 BellowsHydroformed T304 S/S

* 300 psi is the bellows rating. Flange rating must also be considered. Full vacuum rating.

SIZE	# CORR	COM- PRESSION* (in)	FLANGED ENDS				WELD ENDS			
			SINGLE		DOUBLE**		SINGLE		DOUBLE**	
			OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)
2-1/2" & 3"	1	3/8	7-1/4	28	-	-	13-5/8	25	-	-
	2	3/4	8-3/4	35	21-1/8	90	15-1/4	30	27-1/2	85
	3	1-1/8	10-3/8	42	24-3/8	109	16-7/8	37	30-3/4	100
	4	1-1/2	12	49	27-5/8	125	18-1/2	45	34	115
	5	1-7/8	13-5/8	57	30-7/8	134	20-1/8	52	37-1/4	130
	6	2-1/4	15-1/4	64	34-1/8	149	21-3/4	60	40-1/2	145
	7	2-5/8	16-7/8	72	37-3/8	165	23-3/8	68	43-3/4	161
	8	3	18-1/2	80	40-5/8	175	25	70	47	177
	9	3-3/8	20-1/4	88	43-7/8	197	26-5/8	84	50-1/4	195
	10	3-3/4	21-3/4	95	47-1/8	211	28-1/4	91	53-1/2	207
	11	4-1/8	23-1/8	103	50-3/8	227	29-7/8	99	56-3/4	224
	12	4-1/2	24-3/4	110	53-5/8	235	31-1/2	100	60	241
	13	4-7/8	26-3/8	118	-	-	33-1/8	114	-	-
4"	1	3/8	7-1/4	40	-	-	13-5/8	30	-	-
	2	3/4	8-3/4	50	21-1/8	125	15-1/4	40	27-1/2	105
	3	1-1/8	10-3/8	60	24-3/8	135	16-7/8	49	30-3/4	123
	4	1-1/2	12	68	27-5/8	151	18-1/2	58	34	141
	5	1-7/8	13-5/8	77	30-7/8	169	20-1/8	67	37-1/4	139
	6	2-1/4	15-1/4	85	34-1/8	186	21-3/4	76	40-1/2	177
	7	2-5/8	16-7/8	90	37-3/8	200	23-3/8	85	43-3/4	195
	8	3	18-1/2	100	40-5/8	219	25	94	47	213
	9	3-3/8	20-1/4	110	43-7/8	238	26-5/8	103	50-1/4	231
	10	3-3/4	21-3/4	120	47-1/8	257	28-1/4	112	53-1/2	250
	11	4-1/8	23-1/8	127	50-3/8	284	29-7/8	122	56-3/4	269
	12	4-1/2	24-3/4	135	53-5/8	311	31-1/2	132	60	289
	13	4-7/8	26-3/8	143	-	-	33-1/8	143	-	-
5"	1	3/8	7-1/4	50	-	-	13-5/8	40	-	-
	2	3/4	8-3/8	60	21-1/8	135	15-1/4	50	27-1/2	125
	3	1-1/8	10-3/8	70	24-3/8	155	16-7/8	60	30-3/4	145
	4	1-1/2	12	80	27-5/8	177	18-1/2	72	34	170
	5	1-7/8	13-5/8	90	30-7/8	198	20-1/8	83	37-1/4	190
	6	2-1/4	15-1/4	100	34-1/8	220	21-3/4	95	40-1/2	215
	7	2-5/8	16-7/8	115	37-3/8	250	23-3/8	105	43-3/4	230
	8	3	18-1/2	125	40-5/8	266	25	116	47	257
	9	3-3/8	20-1/4	135	43-7/8	288	26-5/8	128	50-1/4	281
	10	3-3/4	21-3/4	145	47-1/8	310	28-1/4	140	53-1/2	305
	11	4-1/8	23-1/8	160	50-3/8	335	29-7/8	150	56-3/4	325
	12	4-1/2	24-3/4	170	53-5/8	355	31-1/2	160	60	345
	13	4-7/8	26-3/8	180	-	-	33-1/8	171	-	-

* For lateral movements, consult factory, extension is one half compression value.

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

SIZE	# CORR	COM- PRESSION* (in)	FLANGED ENDS				WELD ENDS			
			SINGLE		DOUBLE**		SINGLE		DOUBLE**	
			OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)
6" <i>Effective Area = 62 sq in</i>	1	3/4	9-1/2	95	-	-	19	90	-	-
	2	1-1/2	12-3/4	120	29-1/4	270	22-1/4	110	38-3/4	260
	3	2-1/4	16	145	35-3/4	320	25-1/2	135	45-1/4	310
	4	3	19-1/4	170	42-1/4	395	28-3/4	158	51-3/4	356
	5	3-3/4	22-1/2	205	48-3/4	425	32	180	58-1/4	400
	6	4-1/2	25-3/4	230	55-1/4	470	35-1/4	200	64-3/4	425
	7	5-1/4	29	255	61-3/4	520	38-1/2	225	71-1/4	475
	8	6	32-1/4	280	68-1/4	570	41-3/4	250	77-3/4	540
	9	6-3/4	35-1/2	305	74-3/4	625	45	280	84-1/4	600
	10	7-1/2	38-3/4	320	81-1/4	675	48-1/4	315	90-3/4	670
8" <i>Effective Area = 92 sq in</i>	1	3/4	9-1/2	135	-	-	19	125	-	-
	2	1-1/2	12-3/4	165	29-1/4	357	22-1/4	152	38-3/4	344
	3	2-1/4	16	190	35-3/4	410	25-1/2	180	45-1/4	400
	4	3	19-1/4	225	42-1/4	475	28-3/4	210	51-3/4	460
	5	3-3/4	22-1/2	250	48-3/4	490	32	240	58-1/4	520
	6	4-1/2	25-3/4	280	55-1/4	590	35-1/4	270	64-3/4	580
	7	5-1/4	29	310	61-3/4	650	38-1/2	300	71-1/4	640
	8	6	32-1/4	335	68-1/4	705	41-3/4	330	77-3/4	700
	9	6-3/4	35-1/2	375	74-3/4	775	45	360	84-1/4	760
	10	7-1/2	38-3/4	415	81-1/4	845	48-1/4	390	90-3/4	820
10" <i>Effective Area = 135 sq in</i>	1	3/4	10-1/2	165	-	-	19	150	-	-
	2	1-1/2	13-3/4	200	29-1/4	442	22-1/4	182	38-3/4	424
	3	2-1/4	17	240	35-3/4	515	25-1/2	215	45-1/4	490
	4	3	20-1/4	270	42-1/4	550	28-3/4	250	51-3/4	560
	5	3-3/4	23-1/2	300	48-3/4	640	32	280	58-1/4	620
	6	4-1/2	26-3/4	340	55-1/4	715	35-1/4	315	64-3/4	690
	7	5-1/4	30	375	61-3/4	785	38-1/2	350	71-1/4	760
	8	6	33-1/4	400	68-1/4	840	41-3/4	380	77-3/4	820
	9	6-3/4	36-1/2	440	74-3/4	915	45	415	84-1/4	890
	10	7-1/2	39-3/4	475	81-1/4	985	48-1/4	450	90-3/4	960
12" <i>Effective Area = 175 sq in</i>	1	3/4	11	280	-	-	19	175	-	-
	2	1-1/2	14-1/4	320	32-1/2	590	22-1/4	210	40-3/4	480
	3	2-1/4	17-1/2	365	39	675	25-1/2	250	47-1/4	560
	4	3	20-3/4	405	45-1/2	755	28-3/4	290	53-3/4	650
	5	3-3/4	24	445	52	835	32	330	60-1/4	720
	6	4-1/2	27-1/4	485	58-1/2	875	35-1/4	370	66-3/4	800
	7	5-1/4	30-1/2	525	65	995	38-1/2	410	73-3/4	880
	8	6	33-3/4	570	71-1/2	1075	41-3/4	445	79-3/4	950
	9	6-3/4	37	610	78	1160	45	490	86-1/4	1040
	10	7-1/2	40-1/4	650	84-1/2	1235	48-1/4	525	92-3/4	1110
14" <i>Effective Area = 205 sq in</i>	1	3/4	13-1/4	252	-	-	14-1/2	127	-	-
	2	1-1/2	15-1/4	286	33	597	16-1/2	161	35	472
	3	2-1/4	17-1/4	319	37	663	18-1/2	194	39	538
	4	3	19-1/4	351	41	727	20-1/2	226	43	602
	5	3-3/4	21-1/4	384	45	793	22-1/2	259	47	668
	6	4-1/2	23-1/4	417	49	859	24-1/2	292	51	734
	7	5-1/4	25-1/4	450	53	925	26-1/2	325	55	800
	8	6	27-1/4	483	57	991	28-1/2	358	59	866
	9	6-3/4	29-1/4	516	61	1057	30-1/2	391	63	932
	10	7-1/2	31-1/4	549	65	1123	32-1/2	424	67	998
16" <i>Effective Area = 268 sq in</i>	1	3/4	13-1/4	295	-	-	14-1/2	158	-	-
	2	1-1/2	15-1/4	330	33	673	16-1/2	193	35	536
	3	2-1/4	17-1/4	365	37	743	18-1/2	228	39	606
	4	3	19-1/4	400	41	813	20-1/2	263	43	676
	5	3-3/4	21-1/4	435	45	883	22-1/2	298	47	746
	6	4-1/2	23-1/4	472	49	957	24-1/2	335	51	820
	7	5-1/4	25-1/4	508	53	1029	26-1/2	371	55	892
	8	6	27-1/4	542	57	1097	28-1/2	405	59	960
	9	6-3/4	29-1/4	578	61	1169	30-1/2	441	63	1032
	10	7-1/2	31-1/4	614	65	1241	33-1/2	477	67	1104
18" <i>Effective Area = 325 sq in</i>	1	13/16	10-5/16	378	-	-	14-1/2	189	-	-
	2	1-5/8	12-3/8	416	30	800	16-9/16	227	35-1/8	610
	3	2-7/16	14-7/16	456	34-1/8	880	18-5/8	267	39-1/4	690
	4	3-1/4	16-1/2	494	38-1/4	955	20-11/16	305	43-3/8	766
	5	4-1/16	18-9/16	534	42-3/8	1035	22-3/4	345	47-1/2	846
	6	4-7/8	20-5/8	573	46-1/2	1113	24-13/16	384	51-5/8	925
	7	5-11/16	22-11/16	613	50-5/8	1195	26-7/8	424	55-3/4	1005
	8	6-1/2	24-3/4	651	54-3/4	1273	28-15/16	462	59-7/8	1080
	9	7-5/16	26-13/16	691	58-7/8	1350	31	502	64	1160
	10	8-1/8	28-7/8	730	63	1430	33-1/16	541	68-1/8	1238

* For lateral movements, consult factory, extension is one half compression value.

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

SIZE	# CORR	COM-PRESSION* (in)	FLANGED ENDS				WELD ENDS			
			SINGLE		DOUBLE**		SINGLE		DOUBLE**	
			OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)	OAL (in)	WT (lbs)
20" <i>Effective Area = 392 sq in</i>	1	13/16	11-13/16	460	-	-	14-1/2	210	-	-
	2	1-5/8	13-7/8	513	33-1/2	1076	16-9/16	263	37-1/8	826
	3	2-7/16	15-15/16	566	37-5/8	1182	18-5/8	316	40-1/4	932
	4	3-1/4	18	619	41-3/4	1288	20-11/16	369	45-3/8	1038
	5	4-1/16	20-1/16	672	45-1/8	1394	22-3/4	422	49-1/2	1144
	6	4-7/8	22-1/8	725	50	1500	24-13/16	475	53-5/8	1250
	7	5-11/16	24-3/16	778	55-1/8	1606	26-7/8	528	57-3/4	1356
	8	6-1/2	26-1/4	831	58-5/8	1702	28-15/16	581	61-7/8	2008
	9	7-5/16	28-5/16	884	62-1/8	1818	31	634	66	1298
	10	8-1/8	30-3/8	937	65-5/8	1924	33-1/16	687	70-1/8	1674
24" <i>Effective Area = 540 sq in</i>	1	13/16	12-13/16	539	-	-	14-1/2	240	-	-
	2	1-5/8	14-7/8	585	34-1/4	1180	16-9/16	294	38	888
	3	2-7/16	16-15/16	630	38-3/8	1275	18-5/8	345	40-1/4	990
	4	3-1/4	19	675	42-1/2	1373	20-11/16	398	45-3/8	1096
	5	4-1/16	21	720	45-7/8	1470	22-3/4	452	49-1/2	1204
	6	4-7/8	22-7/8	766	50-3/4	1576	24-13/16	510	53-5/8	1320
	7	5-11/16	25	811	55-7/8	1671	26-7/8	560	57-3/4	1420
	8	6-1/2	27	857	59-3/8	1767	28-15/16	610	61-7/8	1520
	9	7-5/16	29	903	62-7/8	1857	31	654	66	1603
	10	8-1/8	31-1/8	957	66-3/8	1974	33-1/16	717	70-1/8	1734

ADDITIONAL BELLOWS DATA

SIZE	BELLOWS EFFECTIVE AREA	BELLOWS SPRING CONSTANT
	(Inches Squared)	(Lbs./Inch/Corrugation)
2-1/2"	21	2600
3"	21	2600
4"	29	2800
5"	40	3100
6"	62	3500
8"	92	3700
10"	135	4000
12"	175	4200
14"	205	4400
16"	268	4700
18"	325	5000
20"	392	5400
24"	540	6200

* For lateral movements, consult factory, extension is one half compression value.

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