

HIGH TEMP FLOATING FLANGE ALLOY X EXPANSION JOINTS

RATED: 2 PSIG @ 1500°F

- 1- Multi-ply Alloy X exhaust bellows
 - 2- T-316 s/s fixed 150# drilled ANSI inlet flange
 - 3- T-316 s/s fixed 150# drilled ANSI outlet flange
 - 4- Alloy X vanstone stub ends
 - 5- Alloy X flow liner (optional)
- * Design per EJMA 10th Edition
* Welding per ASME Section IX



SIZE			6" L/L MULTI-PLY BELLWS						9" L/L MULTI-PLY BELLWS						12" L/L MULTI-PLY BELLWS					
SIZE	INLET (ANSI)	OUTLET (ANSI)	OVERALL LENGTH	AXIAL COMPRESSION*	AXIAL SPRING RATE	LATERAL OFFSET*	LATERAL SPRING RATE	PART No.	OVERALL LENGTH	AXIAL COMPRESSION*	AXIAL SPRING RATE	LATERAL OFFSET*	LATERAL SPRING RATE	PART No.	OVERALL LENGTH	AXIAL COMPRESSION*	AXIAL SPRING RATE	LATERAL OFFSET*	LATERAL SPRING RATE	PART No.
3"	3"	3"	10"	1.25"	123	.625"	78	50-306070	13"	2.00"	84	1.00"	24	50-309070	16"	X	X	X	X	N/A
3-1/2"	3.5"	3.5"	10"	1.25"	107	.625"	94	50-356070	13"	2.75"	42	1.00"	16	50-359070	16"	X	X	X	X	N/A
4"	4"	4"	10"	1.75"	120	.625"	130	50-406070	13"	3.00"	46	1.00"	22	50-409070	16"	2.63"	60	1.75"	16	50-4012070
5"	5"	5"	10"	2.00"	105	.625"	170	50-506070	13"	3.00"	65	1.00"	48	50-509070	16"	3.75"	60	1.75"	24	50-5012070
6"	6"	6"	10"	2.00"	131	.625"	288	50-606070	13"	3.00"	82	1.00"	82	50-609070	16"	4.75"	68	1.75"	37	50-6012070
8"	8"	8"	10"	2.00"	165	.500"	591	50-806070	13"	3.00"	104	1.00"	168	50-809070	16"	5.50"	63	1.75"	58	50-8012070
10"	10"	10"	10"	2.00"	154	.430"	845	50-1006070	13"	3.00"	102	1.00"	249	50-1009070	16"	5.50"	77	1.75"	106	50-10012070
12"	12"	12"	10"	2.00"	181	.375"	1,368	50-1206070	13"	3.00"	121	.750"	405	50-1209070	16"	5.50"	91	1.63"	171	50-12012070
14"	14"	14"	10"	2.00"	198	.375"	1,788	50-1406070	13"	3.00"	172	.750"	719	50-1409070	16"	5.50"	99	1.50"	223	50-14012070
16"	16"	16"	10"	2.00"	255	.250"	2,623	50-1606070	13"	3.00"	194	.625"	1,039	50-1609070	16"	5.50"	113	1.25"	323	50-16012070
18"	18"	18"	10"	2.00"	253	.250"	3,684	50-1806070	13"	3.00"	216	.625"	1,442	50-1809070	16"	5.50"	126	1.13"	461	50-18012070
20"	20"	20"	10"	2.00"	280	.250"	4,997	50-2006070	13"	3.00"	237	.500"	1,938	50-2009070	16"	5.25"	171	1.00"	785	50-20012070
22"	22"	22"	10"	2.00"	307	.188"	6,587	50-2206070	13"	3.00"	260	.500"	2,547	50-2209070	16"	5.25"	187	.875"	1,033	50-22012070
24"	24"	24"	10"	2.00"	333	.188"	8,482	50-2406070	13"	3.00"	283	.438"	3,270	50-2409070	16"	5.25"	204	.750"	1,329	50-24012070
26"	26"	26"	10"	2.00"	459	.188"	13,772	50-2606070	13"	3.00"	305	.438"	4,118	50-2609070	16"	5.25"	220	.750"	1,675	50-26012070
28"	28"	28"	10"	2.00"	493	.188"	17,069	50-2806070	13"	3.00"	327	.375"	5,100	50-2809070	16"	5.25"	236	.625"	2,077	50-28012070
30"	30"	30"	10"	2.00"	527	.125"	20,852	50-3006070	13"	3.00"	449	.375"	8,072	50-3009070	16"	5.25"	253	.625"	2,538	50-30012070
32"	32"	32"	10"	2.00"	561	.125"	25,153	50-3206070	13"	3.00"	478	.313"	9,732	50-3209070	16"	5.25"	269	.625"	3,062	50-32012070
34"	34"	34"	10"	2.00"	598	.063"	30,006	50-3406070	13"	3.00"	507	.313"	11,605	50-3409070	16"	5.25"	285	.500"	3,652	50-34012070
36"	36"	36"	10"	2.00"	804	.063"	24,913	50-3606070	13"	3.00"	536	.313"	13,703	50-3609070	16"	5.25"	302	.500"	4,314	50-36012070
38"	38"	38"	10"	2.00"	900	.063"	57,448	50-3806070	13"	3.00"	564	.250"	16,033	50-3809070	16"	5.25"	318	.500"	5,050	50-38012070
40"	40"	40"	10"	2.00"	890	.063"	62,820	50-4006070	13"	3.00"	593	.250"	18,613	50-4009070	16"	5.25"	334	.500"	5,866	50-40012070
42"	42"	42"	10"	2.00"	933	.063"	72,410	50-4206070	13"	3.00"	622	.250"	21,455	50-4209070	16"	5.25"	350	.500"	6,764	50-42012070
44"	44"	44"	10"	2.00"	976	.063"	82,927	50-4406070	13"	3.00"	650	.250"	24,571	50-4409070	16"	5.25"	366	.375"	7,750	50-44012070
46"	46"	46"	10"	2.00"	1,019	.063"	94,411	50-4606070	13"	3.00"	679	.250"	27,974	50-4609070	16"	5.25"	382	.375"	8,827	50-46012070
48"	48"	48"	10"	2.00"	1,061	.063"	106,905	50-4806070	13"	3.00"	708	.188"	31,675	50-4809070	16"	5.25"	398	.375"	9,998	50-48012070

Most expansion joint configurations can be made with high temp Alloy X
Custom lengths available

* Movements are non-concurrent

Flow liners may be required. See EJMA 10 guidelines
Contact Triad Bellows sales for single-ply expansion joints