

WELD END EXHAUST EXPANSION JOINTS

RATED: 5 PSIG @ 1000°F

- 1- Multi-ply T-321 stainless exhaust bellows
- 2- Beveled weld ends carbon steel
- 3- T-304 / T-321 s/s flow liner (optional)
- * Design per EJMA 10th Edition
- * Welding per ASME Section IX

**Note: 3" through 18" are A53 standard wall pipe
20" and larger are 1/4" thick A-36 rolled cylinders**



SIZE			6" L/L MULTI-PLY BELLAWS						9" L/L MULTI-PLY BELLAWS						12" L/L MULTI-PLY BELLAWS					
SIZE	INLET (37° BEVEL)	OUTLET (37° BEVEL)	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"	12"	1.50"	123	0.625	81	50-30640	15"	2.00"	83	1.0"	24	50-3040	18"	X	X	X	X	N/A
3-1/2"	3.5"	3.5"	12"	1.75"	107	0.625	94	50-35640	15"	2.75"	68	1.0"	27	50-3540	18"	X	X	X	X	N/A
4"	4"	4"	12"	2.00"	120	.625"	129	50-40640	15"	3.00"	46	1.00"	22	50-4040	18"	2.50"	55	1.50"	15	50-401240
5"	5"	5"	12"	2.00"	105	.625"	170	50-50640	15"	3.00"	66	1.00"	47	50-5040	18"	4.00"	43	1.50"	18	50-501240
6"	6"	6"	12"	2.00"	131	.625"	288	50-60640	15"	3.00"	82	1.00"	80	50-6040	18"	5.00"	49	1.50"	28	50-601240
8"	8"	8"	12"	2.00"	165	.500"	591	50-80640	15"	3.00"	103	1.00"	165	50-8040	18"	5.50"	64	1.50"	58	50-801240
10"	10"	10"	12"	2.00"	154	.430"	845	50-100640	15"	3.00"	103	1.00"	248	50-10040	18"	5.50"	80	1.50"	110	50-1001240
12"	12"	12"	12"	2.00"	181	.375"	1368	50-120640	15"	3.00"	121	.875"	405	50-12040	18"	5.50"	91	1.50"	171	50-1201240
14"	14"	14"	12"	2.00"	198	.375"	1788	50-140640	15"	3.00"	132	.750"	530	50-14040	18"	5.50"	99	1.50"	223	50-1401240
16"	16"	16"	12"	2.00"	225	.250"	2623	50-160640	15"	3.00"	150	.625"	777	50-16040	18"	5.50"	113	1.25"	328	50-1601240
18"	18"	18"	12"	2.00"	253	.250"	3684	50-180640	15"	3.00"	168	.500"	1092	50-18040	18"	5.50"	126	1.13"	461	50-1801240
20"	20"	20"	12"	2.00"	280	.250"	4997	50-200640	15"	3.00"	186	.500"	1480	50-20040	18"	5.25"	171	1.00"	783	50-2001240
22"	22"	22"	12"	2.00"	307	.188"	6587	50-220640	15"	3.00"	204	.500"	1952	50-22040	18"	5.25"	187	.875"	1030	50-2201240
24"	24"	24"	12"	2.00"	333	.188"	8482	50-240640	15"	3.00"	222	.500"	2513	50-24040	18"	5.25"	204	.750"	1324	50-2401240
26"	26"	26"	12"	2.00"	460	.188"	13907	50-260640	15"	3.00"	298	.438"	4017	50-26040	18"	5.25"	220	.750"	1669	50-2601240
28"	28"	28"	12"	2.00"	494	.188"	17238	50-280640	15"	3.00"	320	.375"	4980	50-28040	18"	5.25"	236	.750"	2070	50-2801240
30"	30"	30"	12"	2.00"	528	.125"	21059	50-300640	15"	3.00"	342	.375"	6085	50-30040	18"	5.25"	253	.625"	2529	50-3001240
32"	32"	32"	12"	2.00"	562	.125"	25403	50-320640	15"	3.00"	364	.313"	7342	50-32040	18"	5.25"	269	.625"	3051	50-3201240
34"	34"	34"	12"	2.00"	596	.063"	30304	50-340640	15"	3.00"	386	.313"	8758	50-34040	18"	5.25"	285	.500"	3639	50-3401240
36"	36"	36"	12"	2.00"	433	.063"	24913	50-360640	15"	3.00"	289	.250"	7382	50-36040	18"	5.25"	217	.500"	3114	50-3601240
38"	38"	38"	12"	2.00"	457	.063"	29152	50-380640	15"	3.00"	304	.250"	8638	50-38040	18"	5.25"	228	.500"	3644	50-3801240
40"	40"	40"	12"	2.00"	480	.063"	33844	50-400640	15"	3.00"	320	.250"	10028	50-40040	18"	5.25"	240	.500"	4231	50-4001240
42"	42"	42"	12"	2.00"	503	.063"	39013	50-420640	15"	3.00"	335	.250"	11559	50-42040	18"	5.25"	252	.500"	4877	50-4201240
44"	44"	44"	12"	2.00"	526	.063"	44681	50-440640	15"	3.00"	351	.250"	13239	50-44040	18"	5.25"	263	.500"	5585	50-4401240
46"	46"	46"	12"	2.00"	549	.063"	50863	40-460640	15"	3.00"	366	.250"	15071	40-46040	18"	5.25"	275	.375"	6358	40-4601240
48"	48"	48"	12"	2.00"	572	.063"	57583	50-480640	15"	3.00"	382	.250"	17062	50-48040	18"	5.25"	286	.375"	7198	50-4801240

Custom lengths available

* Movements are non-concurrent

Stainless weld ends available on request for 1200°F temperature rating

Flow liners may be required. See EJMA 10 guidelines

Hastelloy X and Inconel 625 available for temperatures to 1500°F

Contact Triad Bellows sales for single-ply expansion joints

Concentric reducers can be added for smooth transitions