

HIGH TEMP FIXED 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 flow liner (optional)
- * Design per EJMA 10th Edition
- * Welding per ASME Section IX



| SIZE | | | 6" L/L MULTI-PLY BELLOWS | | | | | | 9" L/L MULTI-PLY BELLOWS | | | | | | 12" L/L MULTI-PLY BELLOWS | | | | | |
|--------|--------------|---------------|--------------------------|--------------------|-------------------|-----------------|---------------------|------------|--------------------------|--------------------|-------------------|-----------------|---------------------|------------|---------------------------|--------------------|-------------------|-----------------|---------------------|-------------|
| 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" | 7" | 1.25" | 123 | .625" | 78 | 50-306060 | 10" | 2.00" | 84 | 1.00" | 24 | 50-309060 | 13" | X | X | X | X | N/A |
| 3-1/2" | 3.5" | 3.5" | 7" | 1.25" | 107 | .625" | 94 | 50-356060 | 10" | 2.75" | 42 | 1.00" | 16 | 50-359060 | 13" | X | X | X | X | N/A |
| 4" | 4" | 4" | 7" | 1.75" | 120 | .625" | 130 | 50-406060 | 10" | 3.00" | 46 | 1.00" | 22 | 50-409060 | 13" | 2.63" | 60 | 1.75" | 16 | 50-4012060 |
| 5" | 5" | 5" | 7" | 2.00" | 105 | .625" | 170 | 50-506060 | 10" | 3.00" | 65 | 1.00" | 48 | 50-509060 | 13" | 3.75" | 60 | 1.75" | 24 | 50-5012060 |
| 6" | 6" | 6" | 7" | 2.00" | 131 | .625" | 288 | 50-606060 | 10" | 3.00" | 82 | 1.00" | 82 | 50-609060 | 13" | 4.75" | 68 | 1.75" | 37 | 50-6012060 |
| 8" | 8" | 8" | 7" | 2.00" | 165 | .500" | 591 | 50-806060 | 10" | 3.00" | 104 | 1.00" | 168 | 50-809060 | 13" | 5.50" | 63 | 1.75" | 58 | 50-8012060 |
| 10" | 10" | 10" | 7" | 2.00" | 154 | .430" | 845 | 50-1006060 | 10" | 3.00" | 102 | 1.00" | 249 | 50-1009060 | 13" | 5.50" | 77 | 1.75" | 106 | 50-10012060 |
| 12" | 12" | 12" | 7" | 2.00" | 181 | .375" | 1,368 | 50-1206060 | 10" | 3.00" | 121 | .750" | 405 | 50-1209060 | 13" | 5.50" | 91 | 1.63" | 171 | 50-12012060 |
| 14" | 14" | 14" | 7" | 2.00" | 198 | .375" | 1,788 | 50-1406060 | 10" | 3.00" | 172 | .750" | 719 | 50-1409060 | 13" | 5.50" | 99 | 1.50" | 223 | 50-14012060 |
| 16" | 16" | 16" | 7" | 2.00" | 255 | .250" | 2,623 | 50-1606060 | 10" | 3.00" | 194 | .625" | 1,039 | 50-1609060 | 13" | 5.50" | 113 | 1.25" | 323 | 50-16012060 |
| 18" | 18" | 18" | 7" | 2.00" | 253 | .250" | 3,684 | 50-1806060 | 10" | 3.00" | 216 | .625" | 1,442 | 50-1809060 | 13" | 5.50" | 126 | 1.13" | 461 | 50-18012060 |
| 20" | 20" | 20" | 7" | 2.00" | 280 | .250" | 4,997 | 50-2006060 | 10" | 3.00" | 237 | .500" | 1,938 | 50-2009060 | 13" | 5.25" | 171 | 1.00" | 785 | 50-20012060 |
| 22" | 22" | 22" | 7" | 2.00" | 307 | .188" | 6,587 | 50-2206060 | 10" | 3.00" | 260 | .500" | 2,547 | 50-2209060 | 13" | 5.25" | 187 | .875" | 1,033 | 50-22012060 |
| 24" | 24" | 24" | 7" | 2.00" | 333 | .188" | 8,482 | 50-2406060 | 10" | 3.00" | 283 | .438" | 3,270 | 50-2409060 | 13" | 5.25" | 204 | .750" | 1,329 | 50-24012060 |
| 26" | 26" | 26" | 7" | 2.00" | 459 | .188" | 13,772 | 50-2606060 | 10" | 3.00" | 305 | .438" | 4,118 | 50-2609060 | 13" | 5.25" | 220 | .750" | 1,675 | 50-26012060 |
| 28" | 28" | 28" | 7" | 2.00" | 493 | .188" | 17,069 | 50-2806060 | 10" | 3.00" | 327 | .375" | 5,100 | 50-2809060 | 13" | 5.25" | 236 | .625" | 2,077 | 50-28012060 |
| 30" | 30" | 30" | 7" | 2.00" | 527 | .125" | 20,852 | 50-3006060 | 10" | 3.00" | 449 | .375" | 8,072 | 50-3009060 | 13" | 5.25" | 253 | .625" | 2,538 | 50-30012060 |
| 32" | 32" | 32" | 7" | 2.00" | 561 | .125" | 25,153 | 50-3206060 | 10" | 3.00" | 478 | .313" | 9,732 | 50-3209060 | 13" | 5.25" | 269 | .625" | 3,062 | 50-32012060 |
| 34" | 34" | 34" | 7" | 2.00" | 598 | .063" | 30,006 | 50-3406060 | 10" | 3.00" | 507 | .313" | 11,605 | 50-3409060 | 13" | 5.25" | 285 | .500" | 3,652 | 50-34012060 |
| 36" | 36" | 36" | 7" | 2.00" | 804 | .063" | 24,913 | 50-3606060 | 10" | 3.00" | 536 | .313" | 13,703 | 50-3609060 | 13" | 5.25" | 302 | .500" | 4,314 | 50-36012060 |
| 38" | 38" | 38" | 7" | 2.00" | 900 | .063" | 57,448 | 50-3806060 | 10" | 3.00" | 564 | .250" | 16,033 | 50-3809060 | 13" | 5.25" | 318 | .500" | 5,050 | 50-38012060 |
| 40" | 40" | 40" | 7" | 2.00" | 890 | .063" | 62,820 | 50-4006060 | 10" | 3.00" | 593 | .250" | 18,613 | 50-4009060 | 13" | 5.25" | 334 | .500" | 5,866 | 50-40012060 |
| 42" | 42" | 42" | 7" | 2.00" | 933 | .063" | 72,410 | 50-4206060 | 10" | 3.00" | 622 | .250" | 21,455 | 50-4209060 | 13" | 5.25" | 350 | .500" | 6,764 | 50-42012060 |
| 44" | 44" | 44" | 7" | 2.00" | 976 | .063" | 82,927 | 50-4406060 | 10" | 3.00" | 650 | .250" | 24,571 | 50-4409060 | 13" | 5.25" | 366 | .375" | 7,750 | 50-44012060 |
| 46" | 46" | 46" | 7" | 2.00" | 1,019 | .063" | 94,411 | 50-4606060 | 10" | 3.00" | 679 | .250" | 27,974 | 50-4609060 | 13" | 5.25" | 382 | .375" | 8,827 | 50-46012060 |
| 48" | 48" | 48" | 7" | 2.00" | 1,061 | .063" | 106,905 | 50-4806060 | 10" | 3.00" | 708 | .188" | 31,675 | 50-4809060 | 13" | 5.25" | 398 | .375" | 9,998 | 50-48012060 |

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