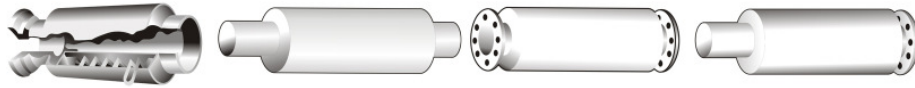


U.S. Bellows, Inc.

EXTERNALLY PRESSURIZED EXPANSION JOINTS



DOUBLE X-FLEX 300# DESIGN

S I Z E	AXIAL MOVEMENT	SPRING RATE	O.A.L	WEIGHT		EFF AREA	SHELL O.D.	ANCHOR FOOT HEIGHT	ANCHOR FOOT TYPE
	IN	LB/IN	IN	FLANGED ENDS LB	WELD ENDS LB	IN ²	IN	IN	
	MM	KG/MM	MM	KG	KG	CM ²	MM	MM	
3	8	280	40	156	130	30.42	8.625	7.313	A
	203	5.0	1016	71	59.09	13.83	219	186	
	16	140	73	242	216	30.42	8.625	7.313	
	406	2.5	1845	110	98.18	13.83	219	186	
4	8	280	41	179	135	30.42	8.625	8.313	A
	203	5.0	1041	81	61.36	13.83	219	211	
	16	140	74	271	227	30.42	8.625	8.313	
	406	2.5	1880	123	103.16	13.83	219	211	
5	8	662	45	297	241	54.24	10.750	9.375	B
	203	11.8	1143	135	109.55	24.65	273	238	
	16	331	82	457	401	54.24	10.750	9.375	
	406	5.9	2083	208	182.27	24.65	273	238	
6	8	662	45	324	246	54.24	10.750	9.375	B
	203	11.8	1143	147	111.82	24.65	273	238	
	16	331	82	494	416	54.24	10.750	9.375	
	406	5.9	2083	226	189.09	24.65	273	238	
8	8	810	45	484	368	87.58	14.000	11.000	C
	203	14.5	1143	220	167.27	39.81	356	279	
	16	423	77	677	561	87.58	14.000	11.000	
	406	7.6	1956	308	255.00	39.81	356	279	
10	8	931	48	629	467	128.88	16.00	12.000	C
	203	16.7	1219	286	212	58.58	406	305	
	16	504	80	867	705	128.88	16.00	12.000	
	406	9.0	2032	394	320	58.58	406	305	

GENERAL NOTES

1. Rated life cycle at 650°F is 1000 cycles for full rated movement shown above.
2. To increase cycle life, please refer to graph on page 93.
3. Expansion joint is capable of taking 10% of rated movement as extension, with remaining 90% as axial compression.
4. Maximum test pressure: 1.5 X rated working pressure.
5. Bellows rated for 650°F: See page 31 for appropriate flange temperature/pressure ratings.
6. Maximum installation misalignment is ±1/4-inch axial and 1/16-inch lateral.

MATERIALS

BELLOWS: A240-T304. Alternate materials available upon request. Refer to page 33.
FLANGES: ASTM A105.
 300 lb ANSI B16.5 RFSO.
PIPE: ASTM A53/A106.
SHELL: ASTM A53/A106; API-5L.
RINGS: ASTM A285-C.