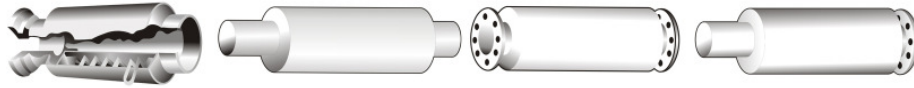


U.S. Bellows, Inc.

EXTERNALLY PRESSURIZED EXPANSION JOINTS



DOUBLE X-FLEX 150# 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	WELD ENDS	IN ²	IN	IN	
	MM	KG/MM	MM	KG	KG	CM ²	MM	MM	
3	4	140	40	140	124	30.24	8.625	7.313	A
	203	2.5	1016	64	56	195.05	219	186	
	16	70	73	220	204	30.24	8.625	7.313	
	406	1.3	1854	100	93	195.05	219	186	
4	8	140	41	155	129	30.24	8.625	8.313	A
	203	2.5	1041	70	59	195.05	219	211	
	16	70	74	241	215	30.24	8.625	8.313	
	406	1.3	1880	110	98	195.05	219	211	
5	8	312	45	257	227	53.85	10.750	9.375	B
	203	5.6	1143	117	103	347.33	273	238	
	16	156	82	401	371	53.85	10.750	9.375	
	406	2.8	2083	182	169	347.33	273	238	
6	8	328	45	262	232	53.85	10.750	9.375	B
	203	5.9	1143	119	105	347.33	273	238	
	16	164	82	418	388	53.85	10.750	9.375	
	406	2.9	2083	190	176	347.33	273	238	
8	8	403	45	412	352	87.09	14.000	11.000	C
	203	7.2	1143	187	160	561.73	356	279	
	16	210	77	591	531	87.09	14.000	11.000	
	406	3.8	1956	269	241	39.59	356	279	
10	8	502	48	519	433	128.28	16.00	12.000	C
	203	9.0	1219	236	197	58.31	406	305	
	16	262	80	738	652	128.28	16.00	12.000	
	406	4.7	2032	335	296	58.31	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.
 150 lb ANSI B16.5 RFSO.
PIPE: ASTM A53/A106.
SHELL: ASTM A53/A106; API-5L.
RINGS: ASTM A285-C.