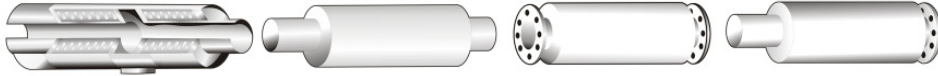


U.S. Bellows, Inc.
EXTERNALLY PRESSURIZED EXPANSION JOINTS



**SINGLE 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
				FLANGED ENDS	WELD ENDS				
	IN	LB/IN	IN	LB	LB	IN ²	IN	IN	
MM	KG/MM	MM	KG	KG	CM ²	MM	MM		
3	4	140	24	81	65	30.24	8.625	PLEASE CONSULT FACTORY REGARDING ANCHOR FOOT USAGE ON SINGLE X-FLEX	
	102	2.5	610	37	30	195.05	219		
	8	70	40	120	104	30.24	8.625		
	203	1.3	1016	55	47	195.05	219		
4	4	140	25	94	68	30.24	8.625		
	102	2.5	635	43	31	195.05	219		
	8	70	42	130	104	30.24	8.625		
	203	1.3	1067	59	47	195.05	219		
5	4	328	28	153	123	53.85	10.750		
	102	5.9	711	70	56	347.33	273		
	8	164	46	226	196	53.85	10.750		
	203	2.9	1168	103	89	347.33	273		
6	4	328	28	163	125	53.85	10.750		
	102	5.9	711	74	57	347.33	273		
	8	164	46	240	202	53.85	10.750		
	203	2.9	1168	109	92	347.33	273		
8	4	403	28	243	183	87.09	14.000		
	102	7.2	711	110	83	561.73	356		
	8	210	44	332	272	87.09	14.000		
	203	3.8	1118	151	124	39.59	356		
10	4	502	29	224	138	128.28	16.00		
	102	9.0	737	102	63	58.31	406		
	8	262	45	425	339	128.28	16.00		
	203	4.7	1143	193	154	58.31	406		

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.
 50 lb ANSI B16.5 RFSO.
PIPE: ASTM A53/A106.
SHELL: ASTM A53/A106; API-5L.
RINGS: ASTM A285-C.