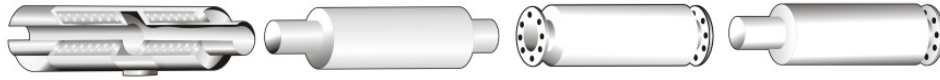


U.S. Bellows, Inc.
EXTERNALLY PRESSURIZED EXPANSION JOINTS



**SINGLE 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	WELD ENDS					IN ²	IN	IN
	MM	KG/MM	MM	KG	KG					CM ²	MM	MM
3	4	280	24	94	68	30.24	8.625	PLEASE CONSULT FACTORY REGARDING ANCHOR FOOT USAGE ON SINGLE X-FLEX				
	102	5.0	610	43	30.91	13.83	219					
	8	140	40	136	110	30.42	8.625					
	203	2.5	1016	62	50.00	13.83	219					
4	4	280	25	115	71	30.42	8.625					
	102	5.0	635	52	32.27	13.83	219					
	8	140	42	154	110	30.42	8.625					
	203	2.5	1067	70	50.0	13.83	219					
5	4	662	28	186	130	54.24	10.750					
	102	11.8	711	85	59.09	24.65	273					
	8	331	46	266	210	54.24	10.750					
	203	5.9	1168	121	95.45	24.65	273					
6	4	662	28	210	132	54.24	10.750					
	102	11.8	711	95	60.00	24.65	273					
	8	331	46	294	216	54.24	10.750					
	203	5.9	1168	134	98.18	24.65	273					
8	4	810	28	191	307	87.58	14.000					
	102	14.5	711	87	139.55	39.81	356					
	8	423	44	403	287	87.58	14.000					
	203	7.6	1118	183	130.45	39.81	356					
10	4	931	29	408	246	128.88	16.00					
	102	16.7	737	185	112	58.58	406					
	8	504	45	527	365	128.88	16.00					
	203	9.0	1143	240	166	58.58	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.
 300 lb ANSI B16.5 RFSO.
PIPE: ASTM A53/A106.
SHELL: ASTM A53/A106; API-5L.
RINGS: ASTM A285-C.