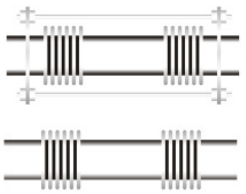
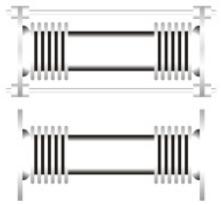
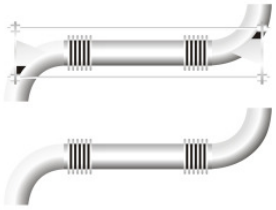
34- / 36- / 38-Inch Nominal Diameter

SIZE	PRESSURE	NON-CONCURRENT MOVEMENTS/SPRING RATES							
		LATERAL MOVEMENT/SPRING RATES						AXIAL	
		54 IN O.A.L		66 IN O.A.L		78 IN O.A.L		MOVEMENT	SPRING RATE
		1372 MM O.A.L		1676 MM O.A.L		1981 MM O.A.L			
		MOVEMENT	SPRING RATE	MOVEMENT	SPRING RATE	MOVEMENT	SPRING RATE		
	PSIG	IN	LB/IN	IN	LB/IN	IN	LB/IN	IN	LB/IN
	KG/CM²	MM	KG/MM	MM	KG/MM	MM	KG/MM	MM	KG/MM
34	50	4.44	273	6.97	129	9.56	74	7.96	292
	3.5	113	4.9	177	2.31	243	1.32	202	5
	135	2.13	1683	3.54	723	5.01	398	4.5	1346
	9.5	54	30.1	90	12.94	127	7.12	114	24
	275	1.58	4951	2.89	1856	4.25	958	4.24	2699
	19.3	40	88.6	73	33.21	108	17.14	108	48
36	50	4.21	323	6.59	152	9.05	88	7.96	309
	3.5	107	5.8	167	2.72	230	1.57	202	6
	135	2.02	1991	3.35	854	4.74	471	4.49	1427
	9.5	51	35.6	85	15.28	120	8.43	114	26
	250	1.52	5853	2.78	2194	4.09	1132	4.31	2860
	17.6	39	104.7	71	39.26	104	20.26	109	51
38	50	3.99	379.0	6.26	179	8.59	103	7.96	327
	3.5	101	6.8	159	3.20	218	1.84	202	6
	130	1.93	2333.0	3.21	1001	4.53	552	4.52	1508
	9.1	49	41.8	82	17.91	115	9.88	115	27
	250	1.44	6859	2.64	2571	3.88	1327	4.3	3021
	17.6	37	122.7	67	46.01	99	23.75	109	54

General Notes
1. Rated life cycle at 650°F is 3000 cycles for any one tabulated movement.
2. To combine axial, lateral and angular movements, please refer to page 80.
3. To increase cycle life or movements, please refer to graph on page 79.
4. Rated bellows extension is equal to rated axial movement. Provided bellows is precompressed the amount of design extension. Installed O.A.L. will decrease by the amount of precompression.
5. Tabulated values are for tied joints, with butt weld ends. Performance of joints with flanged ends, and unrestrained joints, will exceed tabulated values.
6. Maximum test pressure: 1.5 X rated working pressure.
7. Bellows are rated for 650°F: See page 31 for appropriate flange temperature/pressure ratings.
8. Pressure thrust load applied to adjacent pipe anchors/equipment when unrestrained expansion joints are used.
9. Please refer to page 81 for part number example.

Materials
Bellows: A240-T304. Alternate materials available upon request. Refer to page 33.
Flanges: ASTM A105.
50 psig Series: 125 lb Lt/Wt FFSO.
For 130-135 psig Series and 250-275 psig Series: Customer to specify actual flanges required.
Plate flanges and angle flanges available for low pressure systems. Please refer to page 32.
Pipe: ASTM A-285-C.
50 psig Series: 0.375-inch wall.
130-135 psig Series: 0.375-inch wall.
250-275 psig Series: 0.500-inch wall.
Liners: A240-T304.
Covers: Carbon steel.
Tie Rods, Hinges, Gimbals: Carbon steel