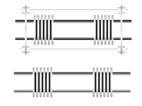
UNIVERSAL EXPANSION JOINTS

3- / 3-1/2- / 4-Inch NOMINAL DIAMETER







S I Z E	P R E S S U R E	NON-CONCURRENT MOVEMENTS/SPRING RATES							
		LATERAL MOVEMENT/SPRING RATES						AXIAL	
		24 I	N O.A.L	36 IN O.A.L 914 MM O.A.L		48 II	N O.A.L	M O	
		610 M	IM O.A.L			1219 MM O.A.L		V E M	S P R
		MOVEMENT	SPRING RATE	MOVEMENT	SPRING RATE	MOVEMENT	SPRING RATE	E N T	R A I T N E G
	PSIG	IN	LB/IN	IN	LB/IN	IN	LB/IN	IN	LB/IN
	KG/ CM ²	MM	KG/MM	ММ	KG/MM	MM	KG/MM	ММ	KG/MM
3	75	3.17	16	8.93	3	14.93	1	2.05	152
	5.3	81	0.3	227	0.05	379	0.02	52	3
	500	1.33	91	3.39	18	5.49	7	0.71	1010
	35.1	34	1.6	86	0.32	139	0.13	18	18
3.5	75	2.81	23	7.82	4	13.03	2	2	175
	5.3	71	0.4	199	0.07	331	0.04	51	3
	500	1.10	151	2.77	30	4.48	12	0.65	1355
	35.1	28	2.7	70	0.54	114	0.21	17	24
4	50	3.43	19	9.41	3	15.61	1	2.71	111
	3.5	87	0.3	239	0.05	396	0.02	69	2
	275	1.44	106	3.53	22	5.66	9	0.92	775
	19.3	37	1.9	90	0.39	144	0.16	23	14

GENERAL NOTES

- 1. Rated life cycle at 650°F is 3000 cycles for any one tabulated movement.
- To combine axial, lateral and angular movements, please refer to page 80.
- 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. Maximum test pressure: 1.5 X rated working pressure.
- Bellows are rated for 650°F: See page 31 for appropriate flange temperature/pressure
- 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.

Phone: 713-731-0030

MATERIALS

Bellows: A240-T304. Alternate materials available upon request. Refer to page 33. FLANGES: ASTM A105.

50-75 psig Series: 150 lb ANSI B16.5 RPSO. 275-500 psig Series: 300 lb ANSI B16.5

Plate flanges and angle flanges available for low pressure systems. Please refer to page 32. PIPE: ASTM A-53/A-106.

50-75 psig Series: Std. Wt. pipe. 275-500 psig Series: Std. Wt. pipe. Liners: A240-T304.

Covers: Carbon steel.

TIE RODS, HINGES, GIMBALS: Carbon steel