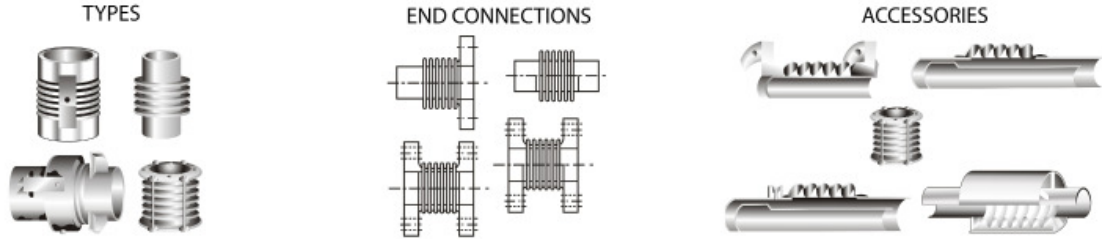


**SINGLE EXPANSION JOINTS**

**6-INCH NOMINAL DIAMETER**

Effective (Thrust) Area: 43.28 in<sup>2</sup> (279.16 cm<sup>2</sup>)



D I A M E T E R	P R E S S U R E	O V E R A L L L E N G T H A N D W E I G H T						N O N - C O N C U R R E N T M O V E M E N T S			S P R I N G R A T E S			
		F L A N G E D E N D S		W E L D E N D S		C O M B I N A T I O N E N D S		A X I A L C O M P	L A T E R A L	A N G U L A R	A X I A L	L A T E R A L	A N G U L A R	T O R S I O N A L
		O.A.L.	WT.	O.A.L.	WT.	O.A.L.	WT.							
		PSIG	IN	LB	IN	LB	IN	LB	IN	IN	DEG	LB/IN	LB/IN	IN-LB/DEG
KG/CM <sup>2</sup>	MM	KG	MM	KG	MM	KG	MM	MM	GRAD	KG/MM	KG/MM	N-M/GRAD	N-M/GRAD x 10 <sup>5</sup>	
6	70	6	39	11	15	9	27	1.21	0.16	10	286	2841	34	0.0652
	4.9	152	17.7	279	6.82	229	12.3	30.7	4.06	11	5	51	3.5	0.0664
	60	10	41	15	17	13	29	2.95	0.92	10	123	213	15	0.0278
	4.2	254	18.6	381	7.73	330	13.2	74.9	23.4	11	2	4	1.5	0.0283
	25	14	43	19	18	17	30	5.04	2.47	10	78	54	9	0.0177
	1.8	356	19.5	483	8.18	432	13.6	128	62.7	11	1	1	0.9	0.0180
6	200	6	40	11	16	9	28	0.68	0.09	10	1330	13237	159	0.1116
	14.1	152	18.2	279	7.27	229	12.7	17.3	2.29	11	24	237	16.2	0.1135
	200	10	43	15	19	13	31	1.63	0.5	10	570	992	68	0.0476
	14.1	254	19.5	61	8.64	330	14.1	40.4	12.4	11	10	18	6.9	0.0484
	105	14	45	19	21	17	33	2.79	1.37	10	363	252	43	0.0303
	7.4	356	20.5	483	9.55	432	15	70.9	34.8	11	6	5	4.4	0.0308
6	500	6	80	10	16	8	48	0.23	0.02	4	10945	257320	1316	0.3506
	35.1	152	36.4	254	7.27	203	21.8	5.84	0.51	4	196	4605	133.8	0.3566
	500	10	84	14	19	12	51	0.73	0.19	10	3284	7863	395	0.1067
	35.1	254	38.2	356	8.64	305	23.2	18.5	4.83	11	59	141	40.2	0.1085
	500	14	87	18	23	16	55	1.24	0.55	10	1932	1637	232	0.0629
	35.1	356	39.5	457	10.5	406	25	31.5	14	11	35	29	23.6	0.0640

**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 43.
3. To increase cycle life or movements, please refer to graph on page 42.
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. Maximum test pressure: 1.5 X rated working pressure.
6. Bellows rated for 650°F: See page 31 for appropriate flange temperature/pressure ratings.
7. Torsional spring rate data provided only for modeling expansion joints on computer stress programs. Please consult factory for allowable torsional loadings.
8. Overall lengths and weights for unrestrained expansion joints only. Consult factory for information regarding tied, hinged, or gimbal expansion joints.
9. Pressure thrust load applied to adjacent pipe anchors/equipment when unrestrained expansion joints are used.

**MATERIALS**

**BELLOWS:** A240-T304. Alternate materials available upon request. Refer to page 33.  
**FLANGES:** ASTM A105.  
 25-70 psig Series: 150 lb ANSI B16.5 RF50.  
 105-200 psig Series: 150 lb ANSI B16.5 RF50.  
 500 psig Series: 300 lb ANSI B16.5 RF50.  
 Plate flanges and angle flanges available for low pressure systems. Please refer to page 32.  
**PIPE:** ASTM A53/A106.  
 25-70 psig Series: Std. Wt. Pipe.  
 105-200 psig Series: Std. Wt. Pipe.  
 500 psig Series: Std. Wt. Pipe.  
**LINERS:** A240-T304.  
**COVERS:** Carbon steel.  
**TIE RODS, HINGES, GIMBALS:** Carbon steel