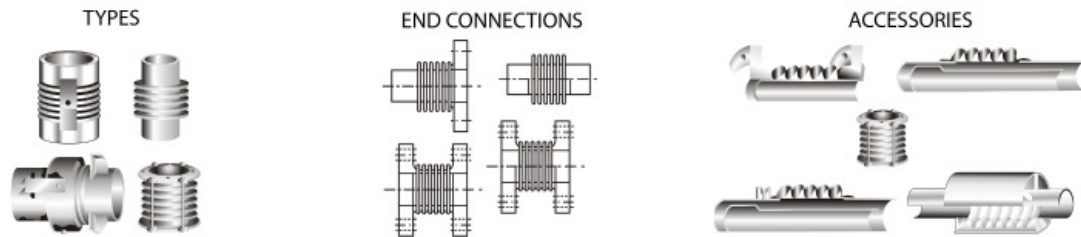


SINGLE EXPANSION JOINTS

Effective (Thrust) Area: 1629 in² (10,508 cm²)

44-INCH NOMINAL DIAMETER



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	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.	W.T.	O.A.L.	W.T.	O.A.L.	W.T.							
		PSIG	IN	LB	IN	LB	IN	LB	IN	IN	DEG	LB/IN	LB/IN	IN-LB/DEG
KG/CM ²	MM	KG	MM	KG	MM	KG	MM	MM	GRAD	KG/MM	KG/MM	N-M/GRAD	N-M/GRAD x 10 ⁵	
44	50	12	737	16	164	14	450	3.51	0.19	9	854	47202	3862	11.8051
	3.5	305	335	406	74.5	356	205	89.2	4.83	10	15	845	392.8	12.0058
	50	18	763	20	190	14	477	6.33	0.63	10	488	8325	2207	6.7104
	3.5	457	347	508	86.4	356	217	161	16	11	9	149	224.5	6.8245
	50	24	790	28	216	26	503	9.15	1.31	10	342	2793	1545	4.6874
	3.5	610	359	711	98.2	660	229	232	33.3	11	6	50	157.1	4.7671
44	115	Customer to specify flange configuration.		16	185	Customer to specify flange configuration.		2.25	0.12	6	3500	193614	15840	19.1526
	8.1	Weights and O.A.L. will be furnished upon receipt of this information.		406	84.1	Weights and O.A.L. will be furnished upon receipt of this information.		57.2	3.05	6	63	3465	1610.9	19.4782
	115			22	227			3.94	0.39	10	2000	34147	9051	10.8863
	8.1			559	103			100	9.91	11	36	611	920.5	11.0713
	115			28	255			5.06	0.65	10	1555	15715	7040	8.4492
	8.1			711	116			129	16.5	11	28	1	716.0	8.5928

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 gimballed 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.
 50 psig Series: 125 lb Lt. Wt. FFSO.
 115 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 A53/A106.
 50 psig Series: 0.375-inch wall.
 115 psig Series: 0.375-inch wall.
LINERS: A240-T304.
COVERS: Carbon steel.
TIE RODS, HINGES, GIMBALS: Carbon steel