

SINGLE EXPANSION JOINTS

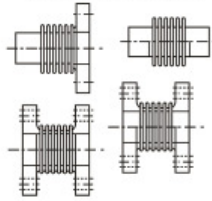
38-INCH NOMINAL DIAMETER

Effective (Thrust) Area: 1231.38 in² (7942.40 cm²)

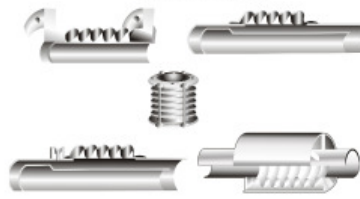
TYPES



END CONNECTIONS



ACCESSORIES



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.	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 ²	MM	KG	MM	KG	MM	KG	MM	MM	GRAD	KG/MM	KG/MM	N-M/GRAD	N-M/GRAD x 10 ⁵	
38	45	12	566	16	145	14	355	3.98	0.29	10	654	21214	2229	6.7546
	3.2	305	257	406	65.9	356	161	101	7.37	11	12	380	226.7	6.8694
	45	18	589	22	168	20	378	6.8	0.83	10	392	4374	1338	4.0351
	3.2	457	268	559	76.4	508	172	173	21.1	11	7	78	136.1	4.1037
	45	24	611	28	190	26	401	9.62	1.66	10	280	1563	955	2.8769
	3.2	610	278	711	86.4	660	182	244	42.2	11	5	28	97.1	2.9258
38	130	Customer to specify flange configuration. Weights and O.A.L. will be furnished upon receipt of this information.		16	160	Customer to specify flange configuration. Weights and O.A.L. will be furnished upon receipt of this information.		2.26	0.15	7	3015	110538	10289	12.1982
	9.1			406	72.7			57.4	3.81	7	54	1978	1046.4	12.4056
	130			22	196			3.96	0.47	10	1723	20625	5880	6.9704
	9.1			559	89.1			101	11.9	11	31	369	598.0	7.0889
	130			28	232			5.65	0.95	10	1206	7074	4116	4.8793
	9.1			711	105			144	24.1	11	22	127	418.6	4.9622
38	250	Customer to specify flange configuration. Weights and O.A.L. will be furnished upon receipt of this information.		16	245	Customer to specify flange configuration. Weights and O.A.L. will be furnished upon receipt of this information.		2.15	0.14	6	6043	222048	20669	12.6752
	17.6			406	111			54.6	3.56	7	108	3974	2102.0	12.8906
	250			22	315			3.77	0.44	10	3453	41432	11811	7.2429
	17.6			559	143			95.8	11.2	11	62	741	1201.2	7.3661
	250			28	384			5.38	0.91	10	2417	14211	8268	5.0701
	17.6			711	175			137	23.1	11	43	254	840.9	5.1563

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.
 45 psig Series: 125 lb Lt. Wt. FFSSO.
 For 130 psig and 250 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 A285-C.
 45 psig Series: 0.375-inch wall.
 130 psig Series: 0.375-inch wall.
 250 psig Series: 0.500-inch wall.
LINERS: A240-T304.
COVERS: Carbon steel.
TIE RODS, HINGES, GIMBALS: Carbon steel