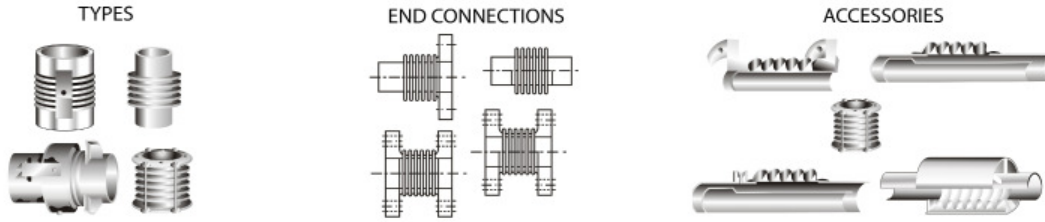


50- / 52- / 54-INCH NOMINAL DIAMETER



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		AXIAL	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.	C O M P						
		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>	
50	75	13	953	16	197	15	575	2.1	0.11	5	2786	177720	1643	35.9278
	5.2	330	433	406	89.5	381	261	53.3	2.79	5	50	3180	1682.4	36.5386
Effective Area		21	1002	24	246	23	624	5.4	0.55	10	1393	22215	8271	17.9639
2138 in <sup>2</sup>		533	455	610	112	584	284	137	14	11	25	398	841.2	18.2693
13,792 cm <sup>2</sup>		29	1050	32	294	31	672	8.1	1.24	10	929	6582	5514	11.9759
		737	477	813	134	787	305	206	31.5	11	17	118	560.8	12.1795
52	70	13	1005	16	205	15	605	2.72	0.13	6	2899	199415	18562	40.4050
	4.9	330	457	406	93.2	381	276	69.1	3.3	6	52	3569	1887.8	41.0919
Effective Area		21	1056	24	256	23	656	5.44	0.54	10	1450	24927	9281	20.2025
2305 in <sup>2</sup>		533	480	610	116	584	298	138	13.7	11	26	446	943.9	20.5459
14,870 cm <sup>2</sup>		29	1106	32	306	31	706	8.16	1.2	10	966	7386	6187	13.4683
		737	503	813	139	787	321	207	30.5	11	17	132	629.2	13.6973
54	70	13	1057	16	213	15	635	2.72	0.13	6	3013	222807	20740	45.2394
	4.9	330	480	406	96.8	381	289	69.1	3.3	6	54	3987	2109.3	46.0085
Effective Area		21	1110	24	266	23	688	5.44	0.52	10	1506	27851	10370	22.6197
2478 in <sup>2</sup>		533	505	610	121	584	313	138	13.2	11	27	498	1054.6	23.0043
15,989 cm <sup>2</sup>		29	1162	32	318	31	740	8.15	1.16	10	1004	8252	6913	15.0798
		737	528	813	145	787	336	207	29.5	11	18	148	703.1	15.3362

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.  
 70-75 psig Series: 125 lb Lt. Wt. FFSO.  
 Plate flanges and angle flanges available for low pressure systems. Please refer to page 32.  
**PIPE:** ASTM A285-C.  
 70-75 psig Series: 0.375-inch wall.  
**LINERS:** A240-T304.  
**COVERS:** Carbon steel.  
**TIE RODS, HINGES, GIMBALS:** Carbon steel