



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

350 Rabro Drive, Hauppauge, NY 11788
 Mason- 631/348-0282 • Info@Mason-Ind.com
 Mercer- 631/582-1524 • Info@Mercer-Rubber.com
 FAX 631/348-0279

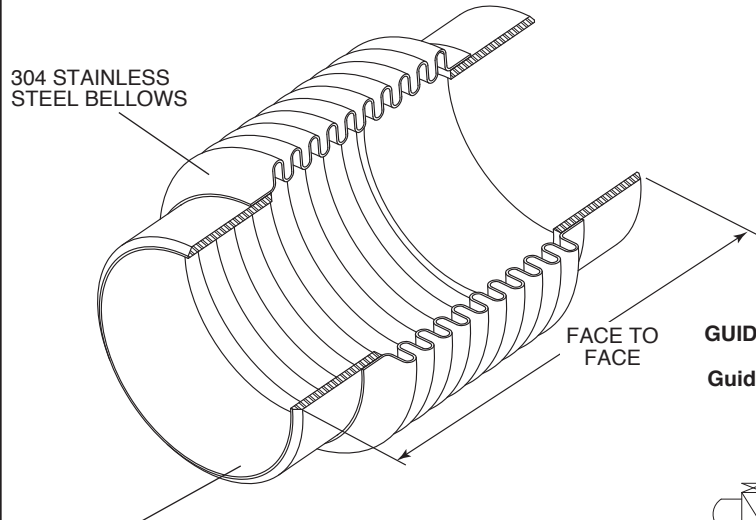


JOB NAME _____
 CUSTOMER _____
 CUSTOMER P.O. _____
 MASON M. _____
 DWG No. _____

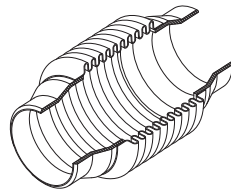
EW50

50 psi FULL VACUUM
 SS BELLOWS
 EXPANSION
 JOINT with CARBON
 STEEL WELD ENDS

Full Vacuum Rating- 30" (762mm) Hg



CARBON STEEL
 STANDARD
 WEIGHT
 BEVELED
 WELD ENDS



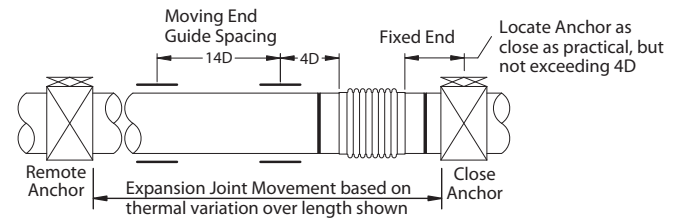
Our 4" design uses 5" stainless bellows between reducers for greater stability.

EW50 RATED PRESSURES @ ELEVATED TEMPERATURES

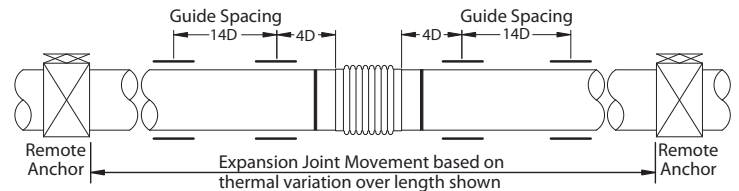
Temperature (°F)	Temperature (°C)	Rated Pressure (psi)(kg/cm ²)	
200	93	46	3.2
300	149	43	3.0
400	204	39	2.7
500	260	38	2.7
800	427	37	2.6
1000	538	30	2.1
1500	816	13	0.9

GUIDE SPACING – Referencing Pipe Diameter "D"

Guides and Anchors for Joint located near Anchor



Guides and Anchors for Joint located between Remote Anchors



EW50 DIMENSIONS AND PRESSURE RATINGS (American & Metric Units) 2" (50mm) AXIAL MOVEMENT, 1/4" (6mm) LATERAL DEFLECTION

Type & Size	Pipe Size		Face to Face		Axial Spring Rate		Lateral Spring Rate		Thrust*		Rated Pressure		Ship Wt.	
	(in)	(mm)	(in)	(mm)	(lbs/in)	(kg/cm)	(lbs/in)	(kg/cm)	50 psi (lbs)	3 kg/cm ² (kg)	@70°F (psi)	@21°C (kg/cm ²)	(lbs)	(kg)
EW50-4	4	100	173/4	451	640	115	850	152	1400	635	50	3	14	6
EW50-5	5	125	141/4	362	640	115	850	152	1400	635	50	3	15	7
EW50-6	6	150	151/4	387	890	159	1400	250	1900	862	50	3	16	7
EW50-8	8	200	151/2	394	1130	202	3700	661	3200	1451	50	3	27	13
EW50-10	10	250	153/4	400	1250	223	6400	1143	4800	2177	50	3	35	16
EW50-12	12	300	173/4	451	1360	243	7790	1391	6600	2994	50	3	46	21
EW50-14	14	350	181/2	470	1410	252	9450	1688	8800	3992	50	3	62	38
EW50-16	16	400	19	483	1810	323	18160	3243	11300	5126	50	3	82	37

EW may be used for 2" Expansion or 2" Compression from neutral length or any combined 2" from neutral. i.e. (+ 1 1/2, - 1/2) (+ 1, - 1) (+ 1/4, - 13/4) etc. Total movement should never exceed 2".

Lower Thrust Forces in proportion at lower pressures, i.e. 20 psi Force = 20/50 x published Thrust. Anchors must resist Thrust Force plus Spring Force. Spring Force is determined by multiplying the joint Spring Rate by its Thermal Movement (in/mm).

EW's installed in piping systems must be anchored on both sides of the joint. EW's installed in unanchored piping must have control rods.

When using EW products in copper or brass water or steam systems, dielectric unions must be used on each end to prevent leakage from galvanic action.

QTY	SIZE	TAG

QTY	SIZE	TAG