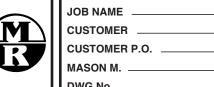


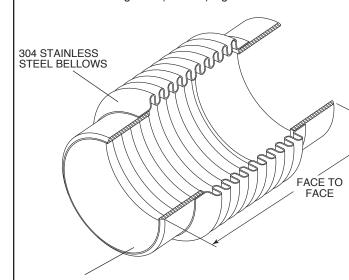
MASON INDUSTRIES, Inc. MERCER RUBBER Co.

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



IOR NAME	EWEA
JOB NAME	EW50
CUSTOMER	
CUSTOMER P.O	50 psi FULL \ BELLOWS
MASON M.	EXPANSION JOINT with
DWG No.	WELD ENDS

Full Vacuum Rating-30" (762mm) Hg

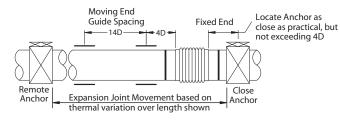


EW50 RATED PRESSURES @ ELEVATED TEMPERATURES **VACUUM**

Tempe (°F)		Pres	ated ssure kg/cm²)
200 300 400 500 800 1000 1500	93 149 204 260 427 538 816	46 43 39 38 37 30 13	3.2 3.0 2.7 2.7 2.6 2.1 0.9

GUIDE SPACING - Referencing Pipe Diameter "D"

Guides and Anchors for Joint located near Anchor

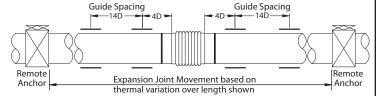


CARBON STEEL STANDARD WEIGHT BEVELED. WELD ENDS



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

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 (in) (mm)		ze Face		Axial Lateral Spring Spring Rate Rate (lbs/in) (kg/cm) (lbs/in) (kg/cm)		Thru 50 psi (lbs)	ust† @ 3 kg/cm² (kg)	Pres @70°F	ted sure @21°C (kg/cm²)	Sh W (lbs)			
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				
0	tion Form C FFC 00/001	DWN	CHKD	DA.	TE	DWG No.					

Certification Form S-556 02/2013



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

EW250

250 psi FULL
VACUUM BELLOWS
EXPANSION
JOINT with

WELD ENDS

EW250 RATED PRESSURES

Temperature (°F) (°C)

400 204

500 260

600 316

700 371

200 93

250 121

300 149

800 427

@ ELEVATED TEMPERATURES

Rated Pressure

(psi)(kg/cm²)

220 15.4

212

195 *13.7*

192 13.4

190 13.3

185 13.0

Not Recommended

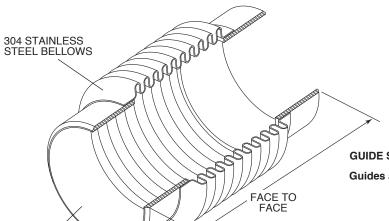
15.9

14.9

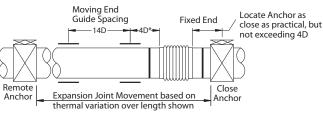
Full Vacuum Rating- 30" (762mm) Hg

CARBON STEEL STANDARD WEIGHT BEVELED

WELD ENDS

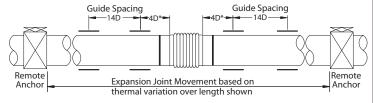


GUIDE SPACING – Referencing Pipe Diameter "D"
Guides and Anchors for Joint located near Anchor



Our 2" – 4" designs use 5" stainless bellows between reducers for greater stability.

Guides and Anchors for Joint located between Remote Anchors



EW250 DIMENSIONS AND PRESSURE RATINGS (American & Metric Units) 2" (50mm) AXIAL MOVEMENT, 1/4" (6mm) LATERAL DEFLECTION

Type & Size		Pipe Size (mm)		ce to ace (mm)	Axial Spring Rate (lbs/in) (kg/cm)		Lateral Spring Rate (lbs/in) (kg/cm)		Through Through 250 psi (lbs)	psi kg/cm²		Rated Pressure @70°F @21°C (psi) (kg/cm²)		nip /t. <i>(kg)</i>
EW250-2	2	50	21	533	1500	268	2040	364	7070	3207	250	18	22	10
EW250-21/2	21/2	65	21	533	1500	268	2040	364	7070	3207	250	18	23	10
EW250-3	3	80	21	533	1500	268	2040	364	7070	3207	250	18	24	11
EW250-4	4	100	18	457	1500	268	2040	364	7070	3207	250	18	25	11
EW250-5	5	125	141/4	362	1500	268	2040	364	7070	3207	250	18	26	12
EW250-6	6	150	161/2	419	1960	350	2450	438	9620	4364	250	18	28	13
EW250-8	8	200	171/4	438	2040	364	3980	710	15910	7217	250	18	32	15
EW250-10	10	250	18	457	2500	446	7790	1391	23760	10777	250	18	51	23
EW250-12	12	300	19	483	3530	630	14300	2554	33190	15055	250	18	60	27
EW250-14	14	350	20	508	3700	661	17600	3143	44180	20040	250	18	79	36
EW250-16	16	400	201/2	521	4660	832	30650	5473	56750	25741	250	18	107	49

EW may be used for 2" Expansion or 2" Compression from neutral length or any combined 2" from neutral. i.e. (+ 11/2, -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. 100 psi Force = 100/250 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	Q	TY	SIZE		TAG
Certifica	tion Form S-557 02/2013	3 DWN	CHKD	DA	ГЕ	DWG No.	