



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

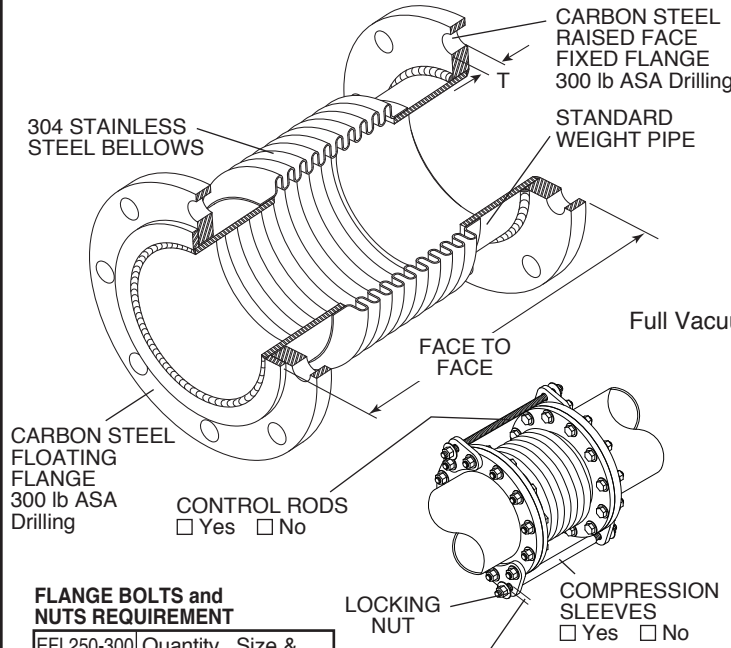
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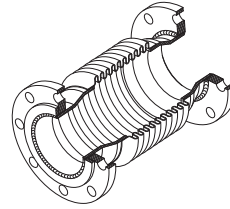
JOB NAME _____
 CUSTOMER _____
 CUSTOMER P.O. _____
 MASON M. _____
 DWG No. _____

EFL250-300

250 psi FULL VACUUM
 SS BELLOWS
 EXPANSION
 JOINT with CARBON
 STEEL FIXED and
 FLOATING FLANGES
 300 lb ASA



Full Vacuum Rating- 30" (762mm) Hg



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

EFL250-300 RATED PRESSURES @ ELEVATED TEMPERATURES

Temperature (°F)	Temperature (°C)	Rated Pressure (psi)	Rated Pressure (kg/cm ²)
200	93	227	15.9
250	121	220	15.4
300	149	212	14.9
400	204	195	13.7
500	260	192	13.4
600	316	190	13.3
700	371	185	13.0
800	427	Not Recommended	

FLANGE BOLTS and NUTS REQUIREMENT

EFL250-300 Size	Quantity per End	Size & Length
2	16	5/8 x 31/2
2 1/2	16	3/4 x 4
3	16	3/4 x 4
4	16	3/4 x 4
5	16	3/4 x 4
6	24	3/4 x 4 1/2
8	24	7/8 x 4 3/4
10	32	1 x 5
12	32	1 1/8 x 5 1/2
14	40	1 1/8 x 5 1/2
16	40	1 1/4 x 6

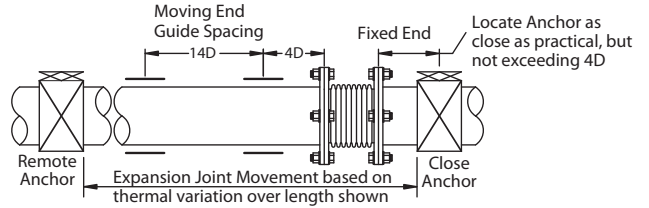
GAP SETTING (Equal to axial extension for anchored systems or zero for unanchored systems)

CARBON STEEL PLATE FLANGES

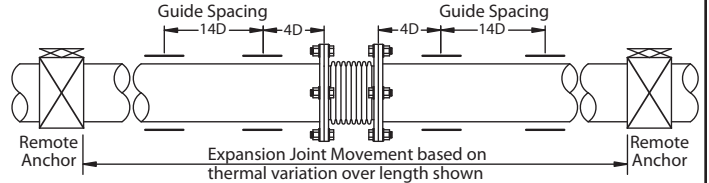
Pipe Size (in)	Pipe Size (mm)	Flange Thickness T (in)	Flange Thickness T (mm)
2 thru 4	20 thru 100	3/4	19
5 thru 6	125 thru 150	1	25
8 thru 16	200 thru 406	1 1/4	32

GUIDE SPACING - Referencing Pipe Diameter "D"

Guides and Anchors for Joint located near Anchor



Guides and Anchors for Joint located between Remote Anchors



EFL250-300 DIMENSIONS AND PRESSURE RATINGS (American & Metric Units) 2" (50mm) COMBINED AXIAL MOVEMENT, 1/4" (6mm) LATERAL DEFLECTION

EFL250-300 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)	250 psi (lbs)	17 kg/cm ² (kg)	@ 70°F (psi)	@ 21°C (kg/cm ²)	(lbs)	(kg)
2	2	50	21	533	1500	268	2040	364	7070	3207	250	17	30	14
2 1/2	2 1/2	65	21	533	1500	268	2040	364	7070	3207	250	17	34	16
3	3	80	21	533	1500	268	2040	364	7070	3207	250	17	36	17
4	4	100	21	533	1500	268	2040	364	7070	3207	250	17	37	17
5	5	125	14 1/4	362	1500	268	2040	364	7070	3207	250	17	38	18
6	6	150	16 1/2	419	1960	350	2450	438	9620	4364	250	17	49	23
8	8	200	17 1/4	438	2040	364	3980	711	15910	7217	250	17	84	39
10	10	250	18	457	2500	446	7790	1391	23760	10777	250	17	116	53
12	12	300	19	483	3530	630	14300	2554	33190	15055	250	17	155	71
14	14	350	20	508	3700	660	17600	3143	44180	20040	250	17	203	92
16	16	400	20 1/2	521	4660	832	30650	5473	56750	25741	250	17	249	113

EFL 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, - 1 3/4) 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).

EFL's installed in piping systems must be anchored on both sides of the joint. EFL's installed in unanchored piping must have control rods. When using EFL products in copper or brass water or steam systems, dielectric flanges must be used on each end to prevent leakage from galvanic action.

QTY	SIZE	TAG

QTY	SIZE	TAG