



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

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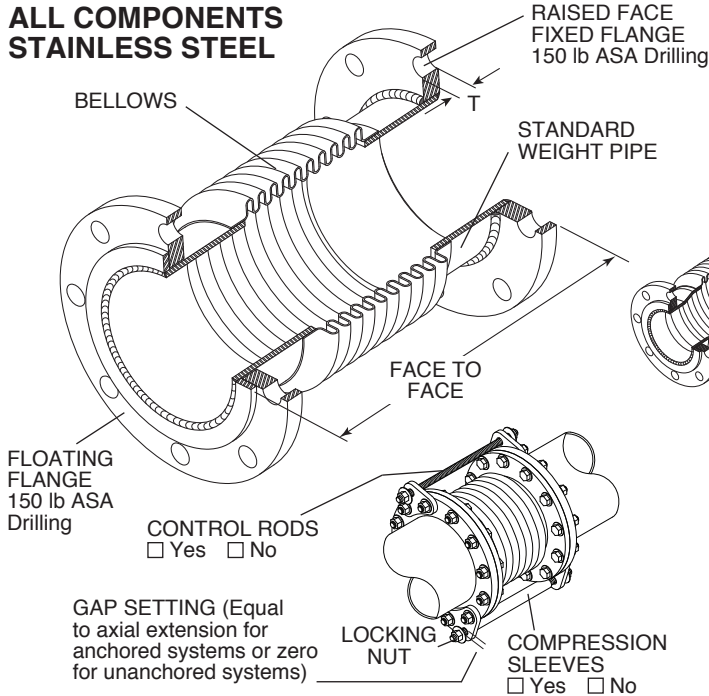


JOB NAME _____
 CUSTOMER _____
 CUSTOMER P.O. _____
 MASON M. _____
 DWG No. _____

EFL50-SS-NSF

50 psi FULL VACUUM
 SS BELLOWS
 EXPANSION
 JOINT with FIXED
 and FLOATING
 FLANGES

**ALL COMPONENTS
 STAINLESS STEEL**



Conforms to UL and ANSI/NSF 61
 Approved Temperature Range.

Full Vacuum Rating- 30" (762mm) Hg

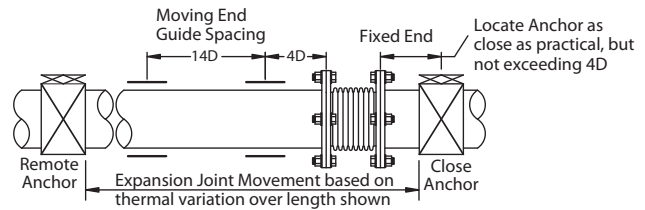


WATER QUALITY
 DRINKING WATER
 SYSTEM COMPONENT
 ANNEX G of ANSI / NSF 61
 (4RV6)

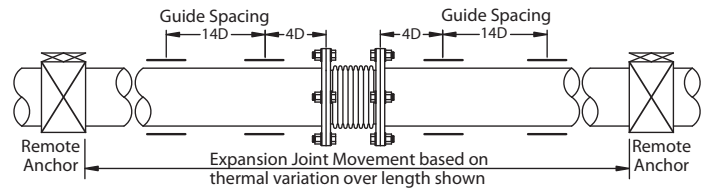
Our 4" designs use 5" bellows between reducers for greater stability.

GUIDE SPACING – Referencing Pipe Diameter "D"

Guides and Anchors for Joint located near Anchor



Guides and Anchors for Joint located between Remote Anchors



FLANGE BOLTS and NUTS REQUIREMENT

Size	Quantity per End	Size & Length
4	16	5/8 x 31/4
5 & 6	16	3/4 x 31/2
8	16	3/4 x 4
10 & 12	24	7/8 x 41/4
14	24	1 x 41/2
16	32	1 x 41/2

PLATE FLANGES

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

**EFL50-SS-NSF DIMENSIONS AND PRESSURE RATINGS (American & Metric Units)
 2" (50mm) COMBINED AXIAL MOVEMENT, 1/4" (6mm) LATERAL DEFLECTION**

Type & Size	Pipe Size (in) (mm)	Face to Face (in) (mm)	Axial Spring Rate (lbs/in) (kg/cm)	Lateral Spring Rate (lbs/in) (kg/cm)	Thrust ¹ @ 50 psi (lbs) @ 70°F	Thrust ³ @ 3 kg/cm ² (kg) @ 21°C	Rated Pressure (psi) (kg/cm ²)	Ship Wt. (lbs) (kg)
EFL50-SS-NSF-4	4 100	21 533	640 115	850 152	1400 635	1400 635	50 3	33 15
EFL50-SS-NSF-5	5 125	141/4 362	640 115	850 152	1400 635	1400 635	50 3	35 16
EFL50-SS-NSF-6	6 150	151/4 387	890 159	1400 250	1900 862	1900 862	50 3	43 20
EFL50-SS-NSF-8	8 200	151/2 394	1130 202	3700 661	3200 1451	3200 1451	50 3	78 35
EFL50-SS-NSF-10	10 250	153/4 400	1250 223	6400 1143	4800 2177	4800 2177	50 3	100 45
EFL50-SS-NSF-12	12 300	173/4 451	1360 243	7790 1391	6600 2994	6600 2994	50 3	140 64
EFL50-SS-NSF-14	14 350	181/2 470	1410 252	9450 1688	8800 3992	8800 3992	50 3	181 82
EFL50-SS-NSF-16	16 400	19 483	1810 323	18160 3243	11300 5126	11300 5126	50 3	226 103

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. 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).

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 systems, dielectric flanges must be used on each end to prevent leakage from galvanic action.

QTY	SIZE	TAG

QTY	SIZE	TAG