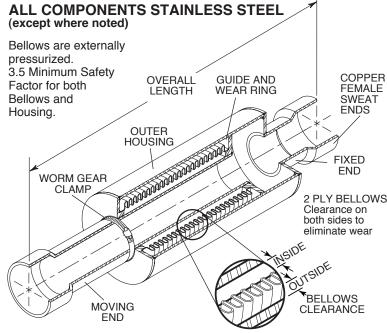
	JOB NAME	ECCPS-NSF 2" (50mm) Movement SS EXPANSION COMPENSATOR with COPPER SWEAT ENDS
--	----------	---



## INSTALLATION:

Thoroughly clean male and female ends using steel wool and steel brushes.
Apply flux

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

- 2. Apply flux.
- Heat joint for proper flow of silver solder. Silver solder flows around 430°F. Composition is silver and tin only. There should be no lead content.
- Use caution with brazing rod or other high temperature techniques. Overheating will cause leaks.
  Descue Mark Const Const.
- 5. Remove Worm Gear Clamp.

WARNING! If additional chlorinating, sanitizing, or disinfecting is required for this system, granular chlorine is not recommended since it may leave behind undissolved granules that can cause corrosion and lead to premature failure of components. System must be thoroughly dechlorinated with clean water immediately after chlorination process. Failure to do so will void warranty. Mason recommends installing NSF Hoses vertically where feasible to promote drainage of chlorine.

LEAD FREE: The surface contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. These flexible joint fitting assemblies are UL Listed under File MH48651 and are intended for installation in accordance with the Mason installation instructions and the applicable requirements in Annex G of ANSI/NSF-61 and NSF-372.



Mason Industries ensures for all UL Listed Products:

- 1. All hose dimensions meet our specifications and dimensions as tabulated.
- 2. Each assembly is pressure tested using Nitrogen Gas for 1 minute at  $1^{1/2}$  times the rated working pressure with no leaks.
- 3. A metal tag is attached which shows the UL Mark and Identification Number, our name, the location (US), and the Part Number with the approval date (month and year).
- 4. Two product stickers which show the UL Mark and Identification Number are on each shipping crate.

## Vacuum rating varies with size and application. Consult factory on all vacuum applications.

Conforms to UL and ANSI/NSF 372 Approved Temperature Range.

## ECCPS-NSF DIMENSIONS AND PRESSURE RATINGS (American & Metric Units) 2" (50mm) COMPRESSION, 1/2" (13mm) EXTENSION

Pipe Size (in) (mm)		Overall Length (in) (mm)		ME Moving End Neutral Length (in) (mm)		FE Fixed End Length (in) (mm)		Hou O.	Outer Housing O.D. (in) (mm)		Nominal Bellow Clearance Inside Outsid (in) (mm) (in) (r		-	$(\frac{lbs}{in}, \frac{kg}{cm})$		Thrust @ 200 13.8 psi bar (lbs) (kg)		Rated Pressure @70°F @21°C (psi) (kg/cm²)			
3/4 1 11/4 11/2	20 25 32 40	111/2 111/2 12 12	292 292 305 305	31/8 31/8 31/2 31/2	79 79 89 89	15/8 15/8 13/4 13/4	40 40 44 44	2 2 23/4 23/4	51 51 70 70	0.17 0.22 0.20 0.17	4 6 5 4	0.11 0.13 0.22 0.20	3 3 6 5	23 44 50 98	4 8 9 18	320 520 630 750	145 236 286 340	200 200 200 200	14 14	2 2 3 4	1 1 2 2
2 21/2 3 4	50 65 80 100	121/4 131/4 131/4 141/2	311 337 337 368	33/4 41/4 41/4 43/8	95 108 108 111	13/4 21/8 21/8 21/2	44 54 54 64	31/2 4 41/4 6	89 102 108 152	0.16 0.20 0.21 0.14	4 5 5 4	0.13 0.22 0.28 0.30	3 6 7 8	168 195 316 350	30 35 57 63	1160 1810 2440 3700	526 821 1107 1678	200 200 200 200	14 14	5 6 7 25	2 3 3 11

Female end fits over copper tubing, e.g. 11/2" (40mm) fits over 11/2" (40mm) tubing.

Lower Thrust Forces in proportion at lower pressures, i.e. 100 psi Force = 100/200 x published Thrust. Forces on Pipe Anchors must include Thrust Force and Spring Force. Spring Force is determined by multiplying the joint Spring Rate by its Thermal Movement. (in/mm)

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

When using ECCPS products in stainless steel water systems, dielectric unions must be used on each end to prevent leakage from galvanic action. GUIDE SPACING – Referencing Pipe Diameter "D"

Guides and Anchor for ECCPS-NSF located near Anchor

Guides and Anchors for ECCPS-NSF located between Anchors

	- 14D <u>+</u> 4		PS-NSF			14D <u>++</u> 4[	D* [	ECCPS-NSF	_4D*14D	<u> </u>
Downstream Anchor	Guided at Moving End	Moving End	Fixed End	Anchored at Fixed End	Downstream Anchor	Guided at both ends	Movi End		Guided at both ends	Upstream Anchor
*Plus an additi	ional 3" (76mm)	) for Sizes 3/4	" to 21/2"	,						

QTY
SIZE
TAG

Image: Constraint of the second secon