



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. \_\_\_\_\_

**ECCPS-SS-NSF**

2" (50mm) Movement  
**EXPANSION  
 COMPENSATOR with  
 COPPER SWEAT  
 ENDS**



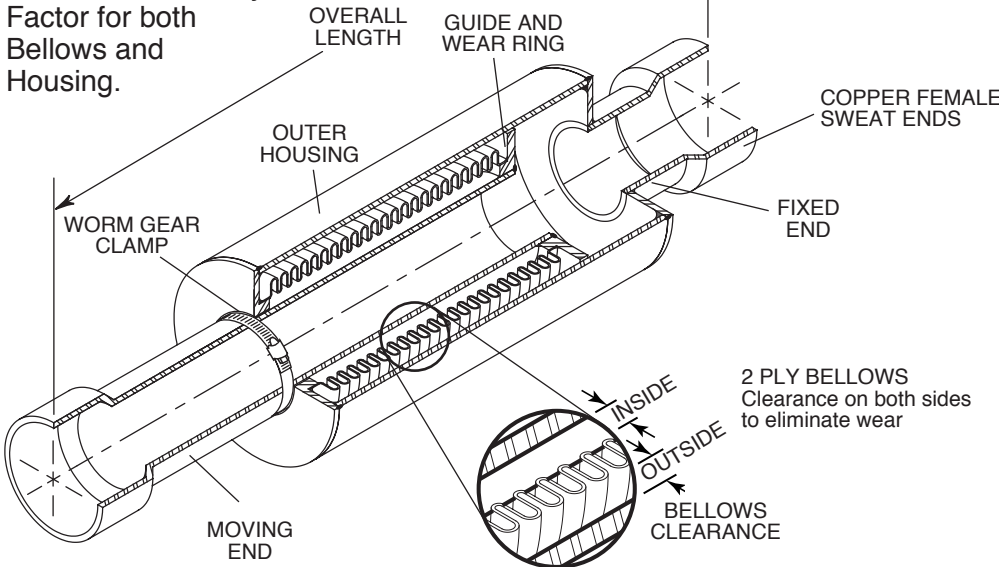
**WATER QUALITY**  
 DRINKING WATER  
 SYSTEM COMPONENT  
 ANNEX G of ANSI / NSF 61  
 (4RV6)

**ALL COMPONENTS STAINLESS STEEL**  
 (except where noted)

Bellows are externally  
 pressurized.  
 3.5 Minimum Safety  
 Factor for both  
 Bellows and  
 Housing.

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

Full Vacuum Rating- 30" (762mm) Hg



**INSTALLATION:**

1. Thoroughly clean male and female ends using steel wool and steel brushes.
2. Apply flux.
3. 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.
4. Use caution with brazing rod or other high temperature techniques. Overheating will cause leaks.
5. Remove Worm Gear Clamp.

**ECCPS-SS-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)		Outer Housing O.D. (in) (mm)		Nominal Bellows Clearance Inside (in) (mm) Outside (in) (mm)		Spring Rate (lbs/in) (kg/cm)		Thrust <sup>†</sup> @ 200 psi / 13.8 bar (lbs) (kg)		Rated Pressure @ 70°F / 21°C (psi) (kg/cm <sup>2</sup> )		Ship Wt. (lbs) (kg)				
3/4	20	11 1/2	292	3 1/8	79	1 5/8	40	2	51	0.17	4	0.11	3	23	4	320	145	200	14	2	1
1	25	11 1/2	292	3 1/8	79	1 5/8	40	2	51	0.22	6	0.13	3	44	8	520	236	200	14	2	1
1 1/4	32	12	305	3 1/2	89	1 3/4	44	2 3/4	70	0.20	5	0.22	6	50	9	630	286	200	14	3	2
1 1/2	40	12	305	3 1/2	89	1 3/4	44	2 3/4	70	0.17	4	0.20	5	98	18	750	340	200	14	4	2
2	50	12 1/4	311	3 3/4	95	1 3/4	44	3 1/2	89	0.16	4	0.13	3	168	30	1160	526	200	14	5	2
2 1/2	65	13 1/4	337	4 1/4	108	2 1/8	54	4	102	0.20	5	0.22	6	195	35	1810	821	200	14	6	3
3	80	13 1/4	337	4 1/4	108	2 1/8	54	4 1/4	108	0.21	5	0.28	7	316	57	2440	1107	200	14	7	3
4	100	14 1/2	368	4 3/8	111	2 1/2	64	6	152	0.14	4	0.30	8	350	63	3700	1678	200	14	25	11

<sup>†</sup>Female end fits over copper tubing, e.g. 1 1/2" (40mm) fits over 1 1/2" (40mm) tubing.

<sup>†</sup>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)

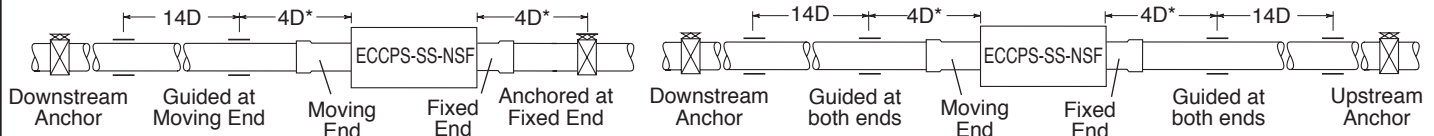
EC's installed in piping systems must be anchored on both sides of the joint. EC's installed in unanchored piping must have control rods.

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-SS-NSF located near Anchor

Guides and Anchors for ECCPS-SS-NSF located between Anchors



\*Plus an additional 3" (76mm) for Sizes 3/4" to 2 1/2"

QTY	SIZE	TAG

QTY	SIZE	TAG