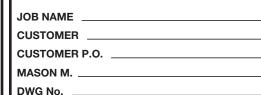


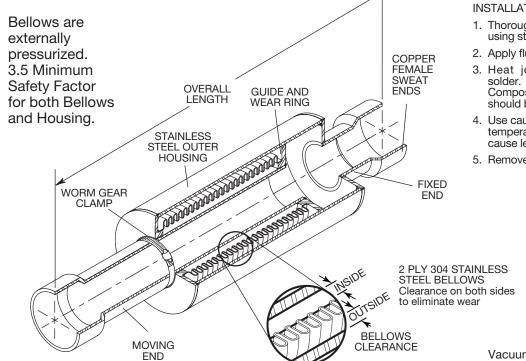
## MASON INDUSTRIES, Inc. MERCER RUBBER Co.

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**EXPANSION COMPENSATOR** with **COPPER SWEAT** 

**ENDS** 



## 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.

## PRESSURE REDUCTION TABLE

Temperature	Rated Pressure (psi)(kg/cm²)
<b>200</b> 93	<b>188</b> <i>13.0</i>
<b>250</b> 121	184 12.7
<b>300</b> 149	176 12.1
400 204	166 11.4
<b>500</b> 260	<b>156</b> <i>10.8</i>
<b>600</b> 316	148 10.2
<b>700</b> <i>371</i>	140 9.7
800 <i>427</i> N	lot Recommended

Vacuum Rating is 30 in (762mm) Hg

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

Type & Size	Tubing Size <sup>††</sup> (in) (mm)	Overall Length (in) (mm)	ME Moving End Neutral Lengt (in) (mm)		Outer Housing O.D. (in) (mm)		l Bellows rance Outside (in) (mm)	Spring Rate (bs) (kg) in)	Thrust <sup>††</sup> @ 200 13.8 psi bar (lbs) (kg)	Rated Pressure @70°F @21°C (psi) (kg/cm²)	Ship Wt. (lbs)(kg)
ECCPS-3/4		111/2 292	31/8 79	15/8 40	2 51	0.17 4	0.11 3	23 4	320 145	200 14	2 1
ECCPS-1		111/2 292	31/8 79	15/8 40	2 51	0.22 6	0.13 3	44 8	520 236	200 14	2 1
ECCPS-11/4		12 305	31/2 89	13/4 44	23/4 70	0.20 5	0.22 6	50 9	630 286	200 14	3 2
ECCPS-11/2		12 305	31/2 89	13/4 44	23/4 70	0.17 4	0.20 5	98 18	750 340	200 14	4 2
ECCPS-2	2 50	121/4 311	33/4 95	13/4 44	31/2 89	0.16 4	0.13 3	168 30	1160 526	200 14	5 2
ECCPS-21/2	21/2 65	131/4 337	41/4 108	21/8 54	4 102	0.20 5	0.22 6	195 35	1810 821	200 14	6 3
ECCPS-3	3 80	131/4 337	41/4 108	21/8 54	41/4 108	0.21 5	0.28 7	316 57	2440 1107	200 14	7 3
ECCPS-4	4 100	141/2 368	43/8 111	21/2 64	6 152	0.14 4	0.30 8	350 63	3700 1678	200 14	25 11

<sup>&</sup>lt;sup>††</sup>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.

GUIDE SPACING - Referencing Pipe Diameter "D"

Guides and Anchor for ECCPS located near Anchor Guides and Anchors for ECCPS located between Anchors 14D --4D\* **ECCPS ECCPS** Downstream Guided at Anchored at Downstream Guided at Guided at Upstream Moving Fixed Moving Fixed Anchor Moving End Fixed End Anchor both ends both ends Anchor End End Fnd End \*Plus an additional 3" (76mm) for Sizes 3/4" to 21/2"

QTY	SIZE	TAG		QTY	SIZE		TAG			

DWG No. DWN CHKD DATE Certification Form S-543 01/2012