

## MASON INDUSTRIES, Inc. MERCER RUBBER Co.

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

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

ALL COMPONENTS (except where noted)	STAINLI	ESS STEEL	
Bellows are externally pressurized. 3.5 Minimum Safety Factor for both	OVERALL	GUIDE AND	COPPER
Bellows and Housing.	LENGTH / JTER /	WEAR RING	FEMALE SWEAT ENDS
	JSING		FIXED
CLAMP			2 PLY BELLOWS Clearance on both sides to eliminate wear
MOVING			DE JUT <sup>SIDE</sup> BELLOWS CLEARANCE
END INSTALLATION:			

- 1. Thoroughly clean male and female ends using steel wool and steel brushes.
- 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.
- 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 11/2 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

Pip Siz (in) (i		Ove Len (in) (		Movin Neutral	E g End Length (mm)	Fixed Ler	Ed End ngth (mm)	Ou Hou: O. (in) (	sing	Insig	Clea	l Bellov rance Outs (in)	-	Spr Ra (lbs in	te	Thru 200 psi (lbs)	st @ 13.8 bar (kg)	Pres @70°F	ted sure @21°C kg/cm²)	Sh W (lbs)	/t.
3/4	20	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
1	25	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
11/4	32	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
11/2	40	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
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
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
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
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

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 4D 4D **ECCPS-NSF ECCPS-NSF** Anchored at Upstream Downstream Guided at Downstream Guided at Guided at Moving Moving Fixed Fixed Anchor Moving End Fixed End Anchor both ends both ends Anchor End End End End \*Plus an additional 3" (76mm) for Sizes 3/4" to 21/2"

QTY	SIZE	TAG		ΥTΩ	SIZE		TAG			
Contifica	tion Form C 5047 00/2010	DWN	CHKD	DA	TE	DWG No.				

Certification Form S-5047 09/2018