

## MASON INDUSTRIES, Inc. MERCER RUBBER Co.

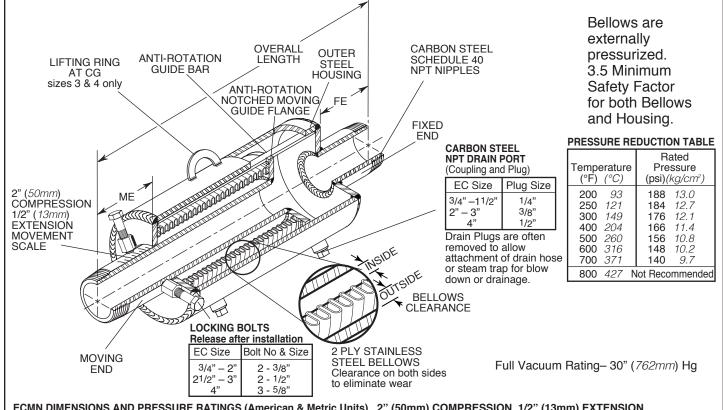
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JOB NAME	_
CUSTOMER	_ "
CUSTOMER P.O.	—   ²' —   <b>E</b>
MASON M.	c
DWG No.	W

2" (50mm)Movement

2" (50mm)Movement EXPANSION COMPENSATORS with CARBON STEEL THREADED NIPPLES

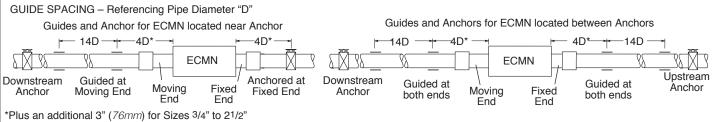


ECMN DIMENSIONS AND PRESSURE RATINGS (American & Metric Units)			) 2 (SUMMIN) COMPRESSION, 1/2 (TSMMIN) EXTENSION								
Type & Size	Pipe Size (in) (mm)	Overall Length (in) (mm)	ME Moving End Neutral Length (in) (mm)	FE Fixed End Length (in) (mm)	Outer Housing O.D. (in) (mm)		I Bellows rance Outside (in) (mm)	Spring Rate $\binom{\text{lbs}}{\text{in}} \binom{kg}{cm}$	Thrust <sup>†</sup> @ 200 13.8 psi bar (lbs) (kg)	@70°F @21°C	
ECMN-3/4 ECMN-1 ECMN-11/4 ECMN-11/2	3/4 20 1 25 11/4 32 11/2 40	121/2 318 121/2 318 13 330 13 330		15/8 41 15/8 41 17/8 48 17/8 48	27/8 73 31/2 89 4 102 41/2 114	0.10 3 0.13 3 0.15 4 0.17 4	0.43 11 0.55 14 0.47 12 0.46 12	89 16 95 17 103 18 106 19	350 159 500 227 800 363 1100 499	200 14 200 14 3 200 14	7 3 10 4 11 5 13 6
ECMN-2 ECMN-21/2 ECMN-3 ECMN-4	2 50 21/2 65 3 80 4 100	131/2 343 141/4 362 143/4 375 143/4 375	43/8 111 41/2 114	21/8 54 21/4 57 21/2 64 21/2 64	51/4 133 61/4 159 65/8 168 85/8 219	0.17 <i>4</i> 0.24 <i>6</i> 0.32 <i>8</i> 0.33 <i>8</i>	0.52 <i>13</i> 0.53 <i>14</i> 0.37 <i>9</i> 0.81 <i>21</i>	110 20 126 23 140 25 150 27	1600 726 2400 1089 3500 1588 5200 2359	200 14 200 14	16 7 23 10 32 15 50 23

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 ECMN products in copper or brass water or steam systems, dielectric unions must be used on each end to prevent leakage from

When using ECMN products in copper or brass water or steam systems, dielectric unions must be used on each end to prevent leakage from galvanic action.



QTY	SIZE	TAG	C	YTÇ	SIZE		TAG	
Certification Form S-5/1 07/2013 DWN CHKD		CHKD	DA.	TE	DWG No.			

Certification Form S-541 07/2013 DWN CHKD DATE DWG No.