

MASON INDUSTRIES, Inc. MERCER RUBBER Co.

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JOB NAME	—— ECGWN
CUSTOMER	2" (50mm) Movement
CUSTOMER P.O.	EXPANSION
MASON M	
DWG No.	GROOVED WELD

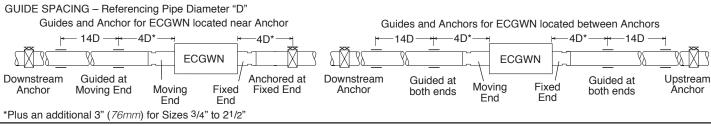
LIFTING RING AT CG sizes 3 & 4 only	OVERALL S	CARBON STEEL SCHEDULE 40 NIPPLES GROOVED FOR COUPLINGS AND BEVELED FOR WELDING ALTERNATE	Bellows are externally pressurized. 3.5 Minimum Safety Factor for both Bellows and Housing.
2" (50mm) COMPRESSION 1/2" (13mm) EXTENSION MOVEMENT		2" – 3" 3/8" for blow do	gs are often removed to allow it of drain hose or steam trap own or drainage. PRESSURE REDUCTION TABLE
SCALE		2 PLY STAINLESS STEEL BELLOWS Clearance on both sides to eliminate wear	Temperature (°F) (°C) Rated Pressure (psi)(kg/cm²) 200 93 188 13.0
MOVING END	LOCKING BOLTS Release after installation EC Size Bolt No & Size 1/2" - 2" 2 - 3/8"	BELLOWS CLEARANCE	250 121 184 12.7 300 149 176 12.1 400 204 166 11.4 500 260 156 10.8 600 316 148 10.2 700 371 140 9.7
	21/2" – 3" 2 - 1/2"	Full Vacuum Rating- 30" (762mm) Hg	800 427 Not Recommended

Ι.	ECGWN DIMENSIONS AND PRESSURE RATINGS (American & Metric Units) 2" (50mm) COMPRESSION, 1/2" (13mm) EXTENSION											
П				ME	FE	Outer		l Bellows	Spring	Thrust [†] @	Rated	
П	Type	Pipe	Overall	Moving End	Fixed End	Housing	Clea	rance	Rate	200 1,3.8	Pressure	Ship
П	&	Size	Lenath	Neutral Length	Lenath	O.D.	Inside	Outside	(<u>lbs</u>) (<u>kg</u>)	psı bar	@70°F @21°C	Wt.
Ш	Size	(in) (mm)	(in) <i>(mm)</i>		(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)		(lbs) (kg)	(psi) (<i>kg/cm</i> ²)	(lbs)(kg)
Ш	ECGWN-3/4	3/4 20	121/2 318	3 3/4 <i>9</i> 5	15/8 41	2 7/8 <i>73</i>	0.10 3	0.43 11	89 16	350 <i>159</i>	200 14	7 3
П	ECGWN-1	1 <i>25</i>	12 1/2 <i>318</i>	3 3/4 <i>95</i>	1 5/8 <i>41</i>	3 1/2 <i>89</i>	0.13 3	0.55 14	95 <i>17</i>	500 <i>227</i>	200 14	9 4
П	ECGWN-11/4	11/4 32	13 330	4 102	17/8 48	4 102	0.15 4	0.47 12	103 18	800 <i>363</i>	200 14	10 5
Ш	ECGWN-11/2	11/2 40	13 <i>330</i>	4 102	17/8 <i>48</i>	41/2 114	0.17 4	0.46 12	106 <i>19</i>	1100 499	200 14	13 <i>6</i>
Ш	ECGWN-2	2 50	13 1/2 <i>343</i>	41/8 105	21/4 <i>57</i>	51/4 133	0.17 4	0.52 13	110 <i>20</i>	1600 <i>726</i>	200 14	17 8
П	ECGWN-21/2	2 1/2 <i>65</i>	14 1/4 <i>362</i>	43/8 111	2 1/4 <i>57</i>	61/4 159	0.24 6	0.53 14	126 <i>23</i>	2400 <i>1089</i>	200 14	24 11
П	ECGWN-3	3 80	143/4 <i>375</i>	41/2 114	21/2 64	6 5/8 168	0.32 8	0.37 9	140 <i>25</i>	3500 <i>1588</i>	200 14	33 15
Ш	ECGWN-4	4 100	143/4 <i>375</i>	41/2 114	21/2 64	8 5/8 <i>219</i>	0.33 8	0.81 21	150 <i>27</i>	5200 <i>2359</i>	200 14	50 <i>23</i>

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 ECGWN products in copper or brass water or steam systems, dielectric couplings must be used on each end to prevent leakage from galvanic action.



	QTY	SIZE	TAG		QTY	SIZE		TAG	
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1	Certification Form S-542 07/2013 DWN CHKD				DATE DW		DWG No.		