

## MASON INDUSTRIES, Inc. MERCER RUBBER Co.

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JOB NAME	ECGWN-SS-NSF
CUSTOMER	E041111-00-1101
CUSTOMER P.O.	2" (50mm) Movement SS EXPANSION
MASON M.	COMPENSATOR with
DWG No	GROOVED WELD NIPPLES

FAX 031/348-02/9	DWG NO.	NIPPLES
ALL COMPONENTS STAINLESS STEEL	Bellows are externally pressurized. 3.5 Minimum	ASSIFIE
GROOVED NIPPLES MAY BE WELDED IN PIPELINES AS AN ALTERNATE.  OVERALL OUTE HOUSIN	Safety Factor for both Bellows and Housing.	C UL US
AT CG sizes 3 & 4 only  MOVING GUIDE FLANGE	SCHEDULE 40 NIPPLES grooved for couplings and beveled	WATER QUALITY DRINKING WATER SYSTEM COMPONENT NNEX G of ANSI / NSF 6 (4RV6)
2" (50mm) COMPRESSION 1/2" (13mm) EXTENSION MOVEMENT	NPT DRAIN PORT (Coupling and Plug)	n removed to drain hose uinage.
SCALE	2 PLY BELLOWS Clearance on both sides to eliminate wear	
LOCKING BOLTS Release after installation  MOVING EC Size Bolt No & Size	BELLOWS CLEARANCE  CLEARANCE  Conforms to UL and A Approved Temperatur	
END 1/2" - 2" 2 - 3/8" 21/2" - 3" 2 - 1/2"	Full Vacuum Rating-	30" ( <i>762mm</i> ) Hg

ECGV	VN-SS-	NSF DIN	IENSIC	ONS AND	PRESSU	RE RATI	NGS	(America	n & M	etric U	nits)	2" (5	0mm	) CON	IPRES	SSION,	1/2" (1	I3mm) E	XTEN'	SION	
Pipe Overall Mov Size Length Neutr		Movin Neutral	IE ig End Length (mm)	FE Fixed End Length (in) (mm)		Outer Housing O.D. (in) (mm)						Spring Rate $\left(\frac{\text{lbs}}{\text{in}} \frac{kg}{cm}\right)$		Thrust @ 200 13.8 psi bar (lbs) (kg)		Rated Pressure @70°F @21°C (psi) (kg/cm²)					
3/4 1 11/4 11/2	20 25 32 40	121/2 121/2 13 13	318 318 330 330	33/4 33/4 4 4	95 95 102 102	15/8 15/8 17/8 17/8	41 41 48 48	27/8 31/2 4 41/2	73 89 102 114	0.10 0.13 0.15 0.17	3 3 4 4	0.43 0.55 0.47 0.46	11 14 12 12	89 95 103 106	16 17 18 19	350 500 800 1100	159 227 363 499	200	14 14 14 14	7 9 10 13	3 4 5 6
2 21/2 3 4	50 65 80 100	131/2 141/4 143/4 143/4	343 362 375 375	41/8 43/8 41/2 41/2	105 111 114 114	21/4 21/4 21/2 21/2	57 57 64 64	51/4 61/4 65/8 85/8	133 159 168 219	0.17 0.24 0.32 0.33	4 6 8 8	0.52 0.53 0.37 0.81	13 14 9 21	110 126 140 150	20 23 25 27	1600 2400 3500 5200	726 1089 1588 2359	200		33	8 11 15 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 ECGWN-SS-NSF products in copper or brass water systems, dielectric couplings must be used on each end to prevent leakage from galvanic action.

GUIDE SPACING - Referencing Pipe Diameter "D"

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

QTY	SIZE	TAG		QTY	SIZE	TAG
		IDWN I	CHKD	DΔ	TF DWG No.	

Certification Form S-5040 07/2013 DWN CHKD DATE DWG No.