

MASON INDUSTRIES, Inc. MERCER RUBBER Co.

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JOB NAME	ECFFL
CUSTOMER	2" (50mm) Movement
CUSTOMER P.O.	EXPANSION
MASON M.	COMPENSATOR with CARBON STEEL
DWG No	FIXED & FLOATING

Bellows are externally pro 3.5 Minimum Safety Fact Bellows and Housing.	or for both	OUTER	/ FLA	Full Vacuun 30" (<i>762mn</i> RBON STEEL NGE RETAIN	n) Hg FLOATING ER		FLANGE BC REQUIREME ECFFL Size	ENT (by Ot Quantity	hers) Size & Length
STEEL OVERALL HOUSING LENGTH FE LIFTING RING AT CG GUIDE			prevents smashed fingers FLOATING FLANGE 150 lb ASA Drilling or as checked below ASA-300				3/4 8 1/2 x 21/2 1 8 1/2 x 21/2 11/4 8 1/2 x 21/2 11/2 8 1/2 x 21/2 2 & 21/2 8 5/8 x 3 3 8 5/8 x 31/4		
sizes 3 & 4 only	FLANGE			DIN DIN DIN FIXED	10 16 25	INSERT	1 1		5/8 x 31/4 SHOWN
COMPRÉSSION 1/2" (13mm) EXTÉNSION MOVEMENT SCALE			_ N	T CARBON STEEL NPT DRAIN POR Coupling and Pl	RT ug) [FLANGE Drain Plu	AT FIXED E- INSIDE ugs are ofter	HEAD AT FLANGE-	FLOATING PIPE SIDE I to allow
EC Size Plug Size attachment of drain hose or steam trap for blow down or drainage. Size Plug Size 3/4" - 11/2" 1/4" 2" - 3" 3/8" 1/2"									ON TABLE ated
FACE FIXED Rel		BELLOWS	CARB	BELLOWS Clear both sides to elected on STEEL PL	iminate wea ATE FLANG Flange Thickness	E T	200 93 250 121 300 149 400 204 500 260 600 316	184 176 166 156	13.0 12.7 12.1 11.4 10.8 10.2
Solid ASA Drilling or as checked MOVING Solid ASA Drilling or as checked MOVING Solid ASA Drilling or as checked Solid ASA Drilling or as checked Solid ASA Solid									
Type Pipe Overall & Size Length Size (in) (mm) (in) (mm	Neutral Length Length	Outer Housing O.D. (in) (mm)		nal Bellows earance Outside n) (in) (mm)	Spring Rate $\binom{\text{lbs}}{\text{in}}\binom{kg}{cm}$	Thru: 200 psi (lbs)	13.8 Pi bar @70	Rated ressure °F @21°C i) (<i>kg/cm</i> ²)	Ship Wt. (lbs)(kg)
ECFFL-3/4 3/4 20 121/2 31 ECFFL-1 1 25 121/2 31 ECFFL-11/4 11/4 32 13 33 ECFFL-11/2 11/2 40 13 33	8 31/2 89 13/4 44 0 33/4 95 2 51 0 33/4 95 2 51	31/2 89 4 102 41/2 114	0.10 3 0.13 3 0.15 4 0.17 4	3 0.55 14 4 0.47 12 4 0.46 12	89 16 95 17 103 18 106 19	350 500 800 1100	227 2 363 2 499 2	00 14 00 14 00 14 00 14	11 5 14 6 15 7 19 9
ECFFL-2 2 50 131/2 34 ECFFL-21/2 21/2 65 141/4 36 ECFFL-3 3 80 143/4 37 ECFFL-4 4 100 143/4 37	2 41/4 108 21/4 57 5 41/2 115 21/2 64 5 41/2 115 21/2 64	61/4 159 65/8 168 85/8 219	0.17 4 0.24 6 0.32 8 0.33 8	0.53 14 0.37 9 0.81 21	110 20 126 23 140 25 150 27	1600 2400 3500 5200	1089 2 1588 2 2359 2	00 14 00 14 00 14 00 14	24 11 35 16 47 21 70 32
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 ECFFL products in copper or brass water or steam systems, dielectric flanges must be used on each end to prevent leakage from galvanic action.									
GUIDE SPACING – Referencing Pipe Diameter "D" Guides and Anchor for ECFFL located near Anchor Guides and Anchors for ECFFL located between Anchors F- 14D									
Downstream Guided at Anchor Moving End End Fixed End* Downstream both ends End									
*Plus an additional 3" (76mm) for S	zes 3/4 to 21/2								
QTY SIZE	TAG		QTY	SIZE			TAG		
									+

CHKD

DWN

Certification Form S-540 07/2013

DATE

DWG No.