



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

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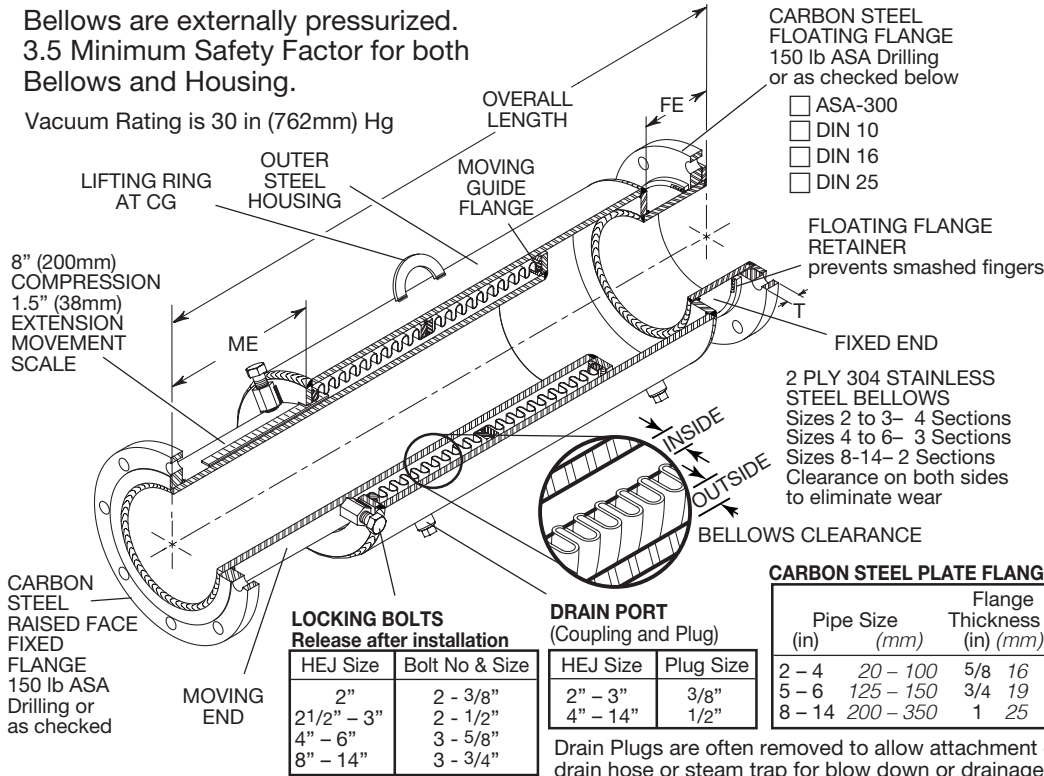
JOB NAME _____
 CUSTOMER _____
 CUSTOMER P.O. _____
 MASON M. _____
 DWG No. _____

HEJFFL8

8" (200mm) Movement
**HOUSED
 EXPANSION JOINT
 with FIXED and
 FLOATING FLANGES**

Bellows are externally pressurized.
 3.5 Minimum Safety Factor for both
 Bellows and Housing.

Vacuum Rating is 30 in (762mm) Hg



CARBON STEEL
 FLOATING FLANGE
 150 lb ASA Drilling
 or as checked below

- ASA-300
- DIN 10
- DIN 16
- DIN 25

FLOATING FLANGE
 RETAINER
 prevents smashed fingers

FIXED END

2 PLY 304 STAINLESS
 STEEL BELLOWS
 Sizes 2 to 3- 4 Sections
 Sizes 4 to 6- 3 Sections
 Sizes 8-14- 2 Sections
 Clearance on both sides
 to eliminate wear

CARBON STEEL PLATE FLANGE

Pipe Size (in)	Flange Thickness T (in)	mm (mm)	mm (mm)
2 - 4	20 - 100	5/8	16
5 - 6	125 - 150	3/4	19
8 - 14	200 - 350	1	25

DRAIN PORT
 (Coupling and Plug)

HEJ Size	Plug Size
2" - 3"	3/8"
4" - 14"	1/2"

Drain Plugs are often removed to allow attachment of
 drain hose or steam trap for blow down or drainage.

FLANGE BOLT and NUT
 REQUIREMENT (by Others)

HEJFFL8 Size	Quantity	Size & Length
2 & 2 1/2	8	5/8 x 3
3	8	5/8 x 3 1/4
4	16	5/8 x 3 1/4
5 & 6	16	3/4 x 3 1/2
8	16	3/4 x 4
10	24	7/8 x 4 1/4
12	24	7/8 x 4 1/4
14	24	1 x 4 1/2

INSERT FLANGE BOLTS AS SHOWN



HEAD AT FIXED FLANGE- INSIDE HEAD AT FLOATING FLANGE- PIPE SIDE

PRESSURE REDUCTION TABLE

Temperature (°F)	Temperature (°C)	Rated Pressure (psi)	Rated Pressure (kg/cm²)
200	93	205	14.4
250	121	198	13.9
300	149	191	13.4
400	204	176	12.4
500	260	173	12.2
600	316	171	12.0
700	371	167	11.7
800	427	Not Recommended	

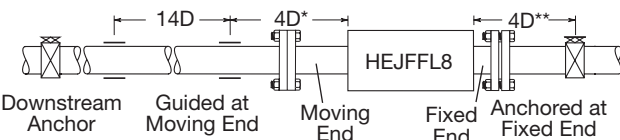
HEJFFL8 DIMENSIONS AND PRESSURE RATINGS (American & Metric Units) 8" (200mm) COMPRESSION, 1.5" (38mm) EXTENSION

Type & Size	Pipe Size (in) (mm)	Overall Length (in) (mm)	ME		FE		Outer Housing O.D. (in) (mm)	Nominal Bellows Clearance		Spring Rate (lbs/in) (kg/cm)	Thrust @ 225 psi 15.5 bar		Rated Pressure @ 70°F @ 21°C (psi) (kg/cm²)	Ship Wt. (lbs) (kg)
			Neutral Length (in) (mm)	Moving End Length (in) (mm)	Fixed End Length (in) (mm)	Inside (in) (mm)		Outside (in) (mm)	psi (kg)		bar (kg)			
HEJFFL8-2	2 50	43 1092	107/8 276	31/8 79	59/16 141	0.39 10	0.39 10	83 15	2500 1134	225 16	95 43			
HEJFFL8-2 1/2	2 1/2 65	43 1092	107/8 276	31/8 79	59/16 141	0.25 6	0.25 6	118 21	2700 1225	225 16	112 51			
HEJFFL8-3	3 80	43 1092	107/8 276	31/8 79	65/8 168	0.32 8	0.33 8	120 22	3900 1769	225 16	136 62			
HEJFFL8-4	4 100	43 1092	107/8 276	31/8 79	85/8 219	0.49 12	0.35 9	150 27	6900 3130	225 16	190 77			
HEJFFL8-5	5 125	47 1194	127/8 327	41/8 105	95/8 244	0.39 10	0.41 10	200 36	9500 4309	225 16	200 91			
HEJFFL8-6	6 150	47 1194	127/8 327	41/8 105	103/4 273	0.39 10	0.39 10	250 45	12600 5715	225 16	325 125			
HEJFFL8-8	8 200	47 1194	127/8 327	41/8 105	123/4 384	0.39 10	0.39 10	300 54	19000 8618	225 16	370 145			
HEJFFL8-10	10 250	47 1194	127/8 327	41/8 105	16 406	0.53 13	0.53 13	400 72	30000 13608	225 16	510 231			
HEJFFL8-12	12 300	47 1194	127/8 327	41/8 105	18 457	0.42 11	0.41 10	588 105	40000 18144	225 16	650 295			
HEJFFL8-14	14 350	50 1270	127/8 327	41/8 105	20 508	0.43 11	0.42 11	700 125	64000 29030	225 16	770 349			

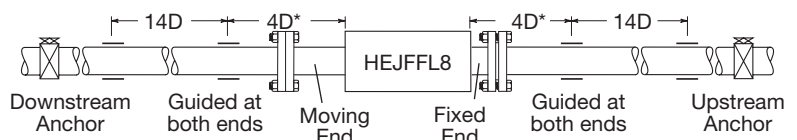
¹Lower Thrust Forces in proportion at lower pressures, i.e. 100 psi Force = 100/225 x published Thrust. Forces on Pipe Anchors must include Thrust Force and Spring Force. Spring Force is determined by multiplying the joint Spring Rate by its Thermal Movement. (in/mm)
 HEJ's installed in piping systems must be anchored on both sides of the joint. HEJ's installed in unanchored piping must have control rods.
 When using HEJFFL 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 HEJFFL8 located near Anchor



Guides and Anchors for HEJFFL8 located between Anchors



*Plus an additional 5" (125mm) for Sizes 2 & 2 1/2

QTY	SIZE	TAG

QTY	SIZE	TAG