



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

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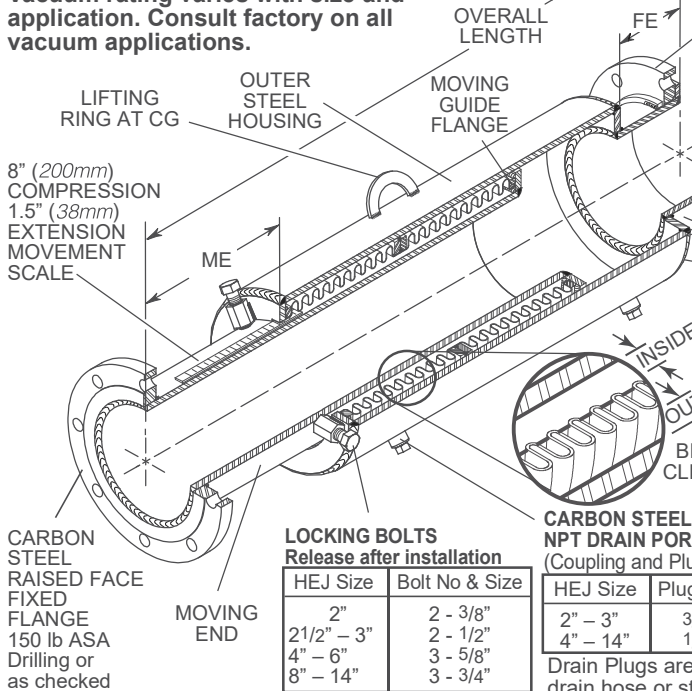
JOB NAME \_\_\_\_\_  
 CUSTOMER \_\_\_\_\_  
 CUSTOMER P.O. \_\_\_\_\_  
 MASON M. \_\_\_\_\_  
 DWG No. \_\_\_\_\_

**HEJFFL8**

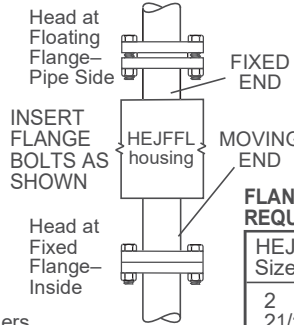
8" (200mm) Movement  
**HOUSED  
 EXPANSION JOINT  
 WITH CARBON STEEL  
 FIXED AND FLOATING  
 FLANGES**

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

**Vacuum rating varies with size and application. Consult factory on all vacuum applications.**



CARBON STEEL FLOATING FLANGE  
 150 lb ASA  
 Drilling or as checked below  
 ASA-300  
 DIN 10  
 DIN 16  
 DIN 25



**PIPE RISER INSTALLATION**  
 Install HEJFFL8 with moving end down to prevent buildup of debris inside housing.

**FLANGE BOLT and NUT REQUIREMENT (by Others)**

HEJ Size	Quantity	Size & Length
2	8	5/8 x 3
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	16	3/4 x 3 1/2
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

FLOATING FLANGE RETAINER prevents smashed fingers  
 FIXED END

2 PLY 304 STAINLESS STEEL BELLWS  
 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)	Pipe Size (mm)	Flange Thickness T (in)	Flange Thickness T (mm)
2-4	20-100	5/8	16
5-6	125-150	3/4	19
8-14	200-350	1	25

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	

**LOCKING BOLTS**  
 Release after installation

HEJ Size	Bolt No & Size
2"	2 - 3/8"
2 1/2" - 3"	2 - 1/2"
4" - 6"	3 - 5/8"
8" - 14"	3 - 3/4"

**CARBON STEEL NPT 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.

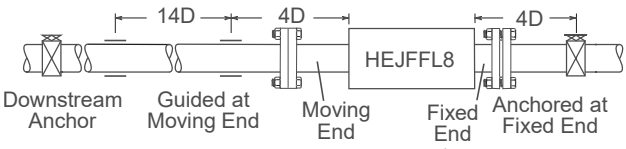
**HEJFFL8 DIMENSIONS AND PRESSURE RATINGS (American & Metric Units) 8" (200mm) COMPRESSION, 1.5" (38mm) EXTENSION**

Type & Size	Pipe Size (in) (mm)	Overall Length (in) (mm)	ME		FE		Outer Housing O.D. (in) (mm)	Nominal Bellows Clearance		Spring Rate		Thrust @ 225 psi 15.5 bar		Rated Pressure @70°F @21°C (psi) (kg/cm²)	Ship Wt. (lbs) (kg)
			Moving End (in) (mm)	Neutral Length (in) (mm)	Fixed End (in) (mm)	Length (in) (mm)		Inside (in) (mm)	Outside (in) (mm)	(lbs/in) (kg/cm)	(lbs) (kg)	(lbs) (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			

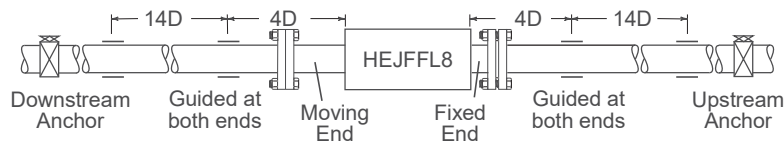
Lower Thrust Forces in proportion at lower pressures, i.e. 100 psi Force = 100/225 x published Thrust. Forces on Pipe Anchors must include Thrust Force and Spring Force. Spring Force is determined by multiplying the joint Spring Rate by its Thermal Movement. (in/mm)

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