



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

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

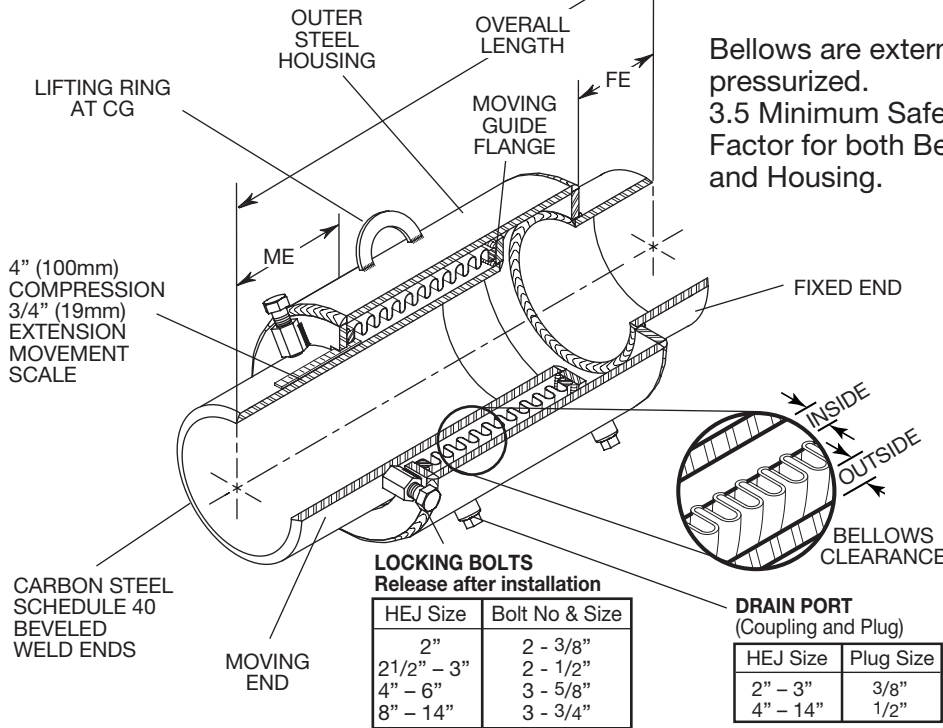
HEJW4

4" (100mm) Movement
HOUSED
EXPANSION
JOINT with
WELD ENDS

PRESSURE REDUCTION TABLE

Temperature (°F) (°C)	Rated Pressure (psi)(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

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



2 PLY 304 STAINLESS STEEL BELLOWS
 Sizes 2 to 6- 2 Sections
 Sizes 8 to 14- 1 Section
 Clearance on both sides to eliminate wear

Vacuum Rating is 30 in (762mm) Hg

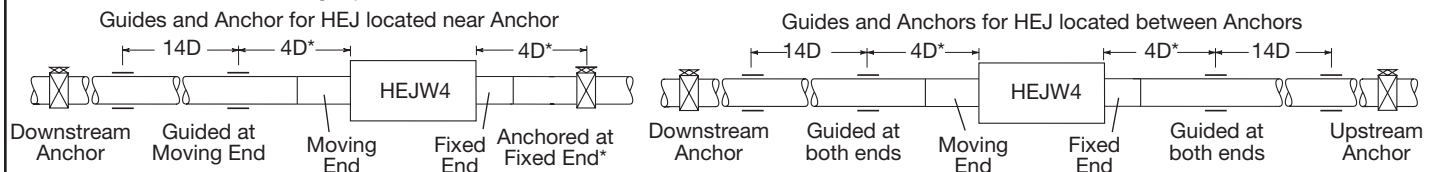
Drain Plugs are often removed to allow attachment of drain hose or steam trap for blow down or drainage.

HEJW4 DIMENSIONS AND PRESSURE RATINGS (American & Metric Units) 4" (100mm) COMPRESSION, 3/4" (19mm) EXTENSION

Type & Size	Pipe Size (in) (mm)	Overall Length (in) (mm)		ME Moving End Neutral Length (in) (mm)		FE Fixed End Length (in) (mm)		Outer Housing O.D. (in) (mm)	Nominal Bellows Clearance (in) (mm)		Spring Rate (lbs/in) (kg/cm)	Thrust* @ 225 psi (15.5 bar) (lbs) (kg)		Rated Pressure @70°F @21°C (psi) (kg/cm²)	Ship Wt. (lbs)(kg)						
		(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)	Inside (in) (mm)	Outside (in) (mm)		(in) (mm)	(in) (mm)											
HEJW4-2	2 50	22	559	51/2	140	11/2	38	59/16	141	0.39	10	0.39	10	165	30	2500	1134	225	15	50	23
HEJW4-21/2	2 1/2 65	22	559	51/2	140	11/2	38	59/16	141	0.25	6	0.25	6	235	42	2700	1225	225	15	51	23
HEJW4-3	3 80	22	559	51/2	140	11/2	38	65/8	168	0.32	8	0.33	8	240	43	3900	1769	225	15	68	29
HEJW4-4	4 100	22	559	51/2	140	11/2	38	85/8	219	0.49	12	0.35	9	300	54	6900	3130	225	15	99	41
HEJW4-5	5 125	24 1/2	622	6	152	2 1/2	64	95/8	244	0.39	10	0.41	10	400	72	9500	4309	225	15	100	45
HEJW4-6	6 150	24 1/2	622	6	152	2 1/2	64	103/4	273	0.39	10	0.39	10	500	90	12600	5715	225	15	155	69
HEJW4-8	8 200	24 1/2	622	6	152	2 1/2	64	123/4	324	0.39	10	0.39	10	600	107	19000	8618	225	15	170	82
HEJW4-10	10 250	24 1/2	622	6	152	2 1/2	64	16	406	0.53	13	0.53	13	800	143	30000	13608	225	15	295	122
HEJW4-12	12 300	24 1/2	622	6	152	2 1/2	64	18	457	0.42	11	0.41	10	1175	210	40000	18144	225	15	338	139
HEJW4-14	14 350	26	660	6	152	2 1/2	64	20	508	0.43	11	0.42	11	1400	250	64000	29030	225	15	440	181

*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 HEJW 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"



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

QTY	SIZE	TAG

QTY	SIZE	TAG