



**MASON INDUSTRIES, Inc.**  
Manufacturers of Vibration Control Products

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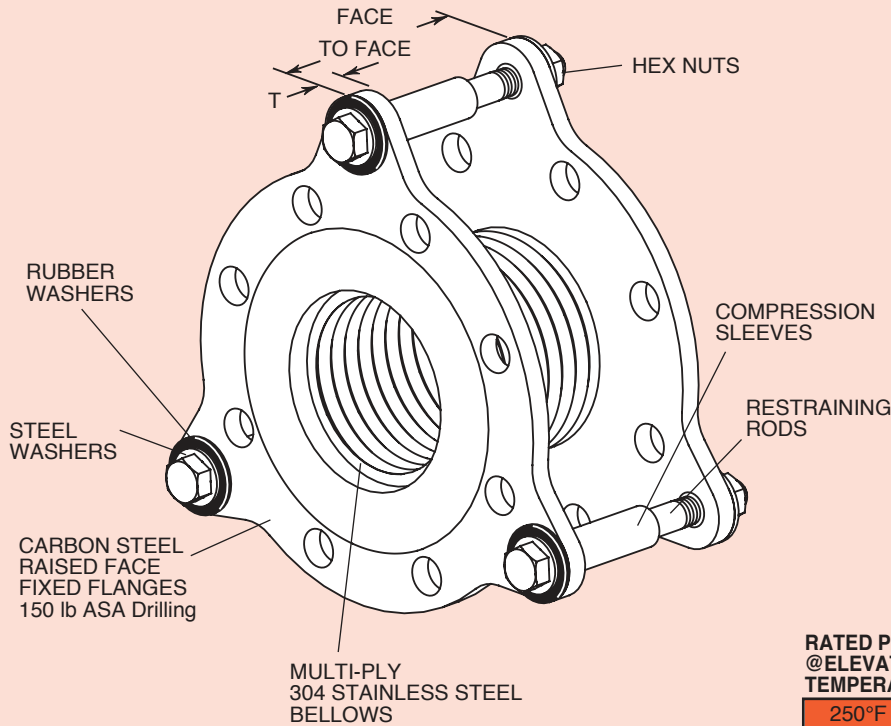
**RESTRAINED  
FLANGED  
BELLOWS**

TYPE

**RFB**

DATA SHEET DS-520

Full Vacuum Rating- 30" (762mm) Hg



All Restrained Flanged Bellows are designed for 1" **25mm** Compression, 3/8" **9mm** Elongation and 1/8" **3mm** Transverse movement. If piping is not anchored, the pressure will open the joints 3/8" **9mm**. When proper anchors are installed, movements will take place as required.

**CARBON STEEL PLATE  
FLANGE THICKNESS**

Pipe Size		Flange Thickness T
(in)	(mm)	(in) (mm)
2 thru 4	<b>50 thru 100</b>	5/8 <b>16</b>
5 thru 6	<b>125 thru 150</b>	3/4 <b>19</b>
8 thru 16	<b>200 thru 400</b>	1 <b>25</b>

**RATED PRESSURES @ELEVATED TEMPERATURES (psi) (kg/cm<sup>2</sup>)**

250°F	350°F	450°F
121°C	176°C	232°C
Factor 0.92	Factor 0.86	Factor 0.81
210 <b>15</b>	200 <b>14</b>	190 <b>13</b>

**SATURATED STEAM RECOMMENDED PRESSURE LIMITS**

Max Gauge (psi) (kg/cm <sup>2</sup> )	Temp Reference (°F) (°C)
125 <b>9</b>	355 <b>179</b>

Our steam service ratings are very low in the interest of safety although our 70°F (21°C) pressure ratings are as high or higher than our competitors. All locations where failure could lead to personal injury or suffocation must be avoided. In dangerous locations we suggest housed expansion joints, solid loops, ball joints, packed devices etc. rather than thin walled flexible products regardless of manufacturer.

Consult factory with full location description as well as service conditions for higher pressure or temperature applications.

**RFB DIMENSIONS AND PRESSURE RATINGS (American Units)**

Type	Pipe Size & Face to Face (in)	Corrugations per foot	Rated Pressure @70°F (psi)
RFB	2 X 6	24	225
RFB	2 1/2 X 6	24	225
RFB	3 X 6	24	225
RFB	4 X 6	24	225
RFB	5 X 6	24	225
RFB	6 X 6	24	225
RFB	8 X 6	24	225
RFB	10 X 8	16	225
RFB	12 X 8	16	225
RFB	14 X 8	16	225
RFB	16 X 8	16	225

**RFB DIMENSIONS AND PRESSURE RATINGS (Metric Units)**

Type	Pipe Size & Face to Face (mm)	Corrugations per meter	Rated Pressure @21°C (kg/cm <sup>2</sup> )
RFB	<b>50 X 152</b>	<b>79</b>	<b>15</b>
RFB	<b>65 X 152</b>	<b>79</b>	<b>15</b>
RFB	<b>80 X 152</b>	<b>79</b>	<b>15</b>
RFB	<b>100 X 152</b>	<b>79</b>	<b>15</b>
RFB	<b>125 X 152</b>	<b>79</b>	<b>15</b>
RFB	<b>150 X 152</b>	<b>79</b>	<b>15</b>
RFB	<b>200 X 152</b>	<b>79</b>	<b>15</b>
RFB	<b>250 X 203</b>	<b>52</b>	<b>15</b>
RFB	<b>300 X 203</b>	<b>52</b>	<b>15</b>
RFB	<b>350 X 203</b>	<b>52</b>	<b>15</b>
RFB	<b>400 X 203</b>	<b>52</b>	<b>15</b>

Face to Face Tolerance: minus 1% plus 3%. Minimum Burst is four times the Rated Pressure. Safety factor of 4.