



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

350 Rabro Drive, Hauppauge, NY 11788
Mason- 631/348-0282 • Info@Mason-Ind.com
Mercer- 631/582-1524 • Info@Mercer-Rubber.com
FAX 631/348-0279

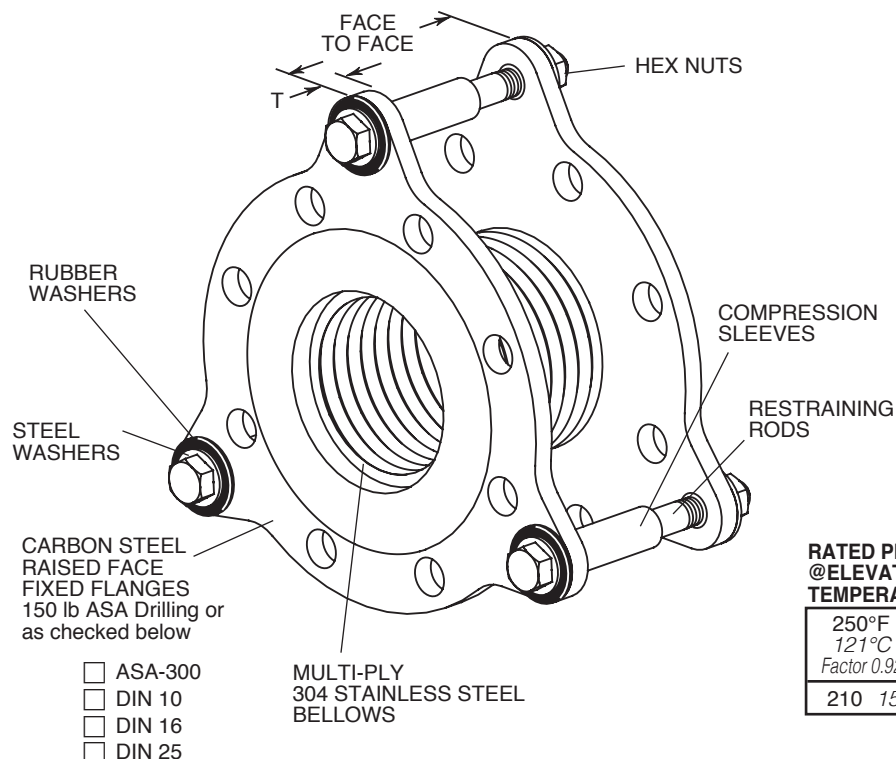


JOB NAME _____
CUSTOMER _____
CUSTOMER P.O. _____
MASON M. _____
DWG No. _____

RFB

**RESTRAINED
FLANGED
BELLOWS**

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



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 (in) | Flange Thickness T (in) (mm) |
|-------------------|---------------------------------|
| 2 thru 4 | 50 thru 100 |
| 5 thru 6 | 125 thru 150 |
| 8 thru 16 | 200 thru 400 |

**RATED PRESSURES
@ELEVATED
TEMPERATURES (psi) (kg/cm²)**

| 250°F 121°C Factor 0.92 | 350°F 176°C Factor 0.86 | 450°F 232°C Factor 0.81 |
|-------------------------------|-------------------------------|-------------------------------|
| 210 15 | 200 14 | 190 13 |

**SATURATED STEAM
RECOMMENDED
PRESSURE LIMITS**

| Max Gauge (psi) (kg/cm ²) | Temp Reference (°F) (°C) |
|--|-----------------------------|
| 125 9 | 355 179 |

**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 ²) |
|------|-------------------------------|------------------------|---|
| RFB | 50 X 152 | 79 | 15 |
| RFB | 65 X 152 | 79 | 15 |
| RFB | 80 X 152 | 79 | 15 |
| RFB | 100 X 152 | 79 | 15 |
| RFB | 125 X 152 | 79 | 15 |
| RFB | 150 X 152 | 79 | 15 |
| RFB | 200 X 152 | 79 | 15 |
| RFB | 250 X 203 | 52 | 15 |
| RFB | 300 X 203 | 52 | 15 |
| RFB | 350 X 203 | 52 | 15 |
| RFB | 400 X 203 | 52 | 15 |

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 then 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.

304 SS can be used up to 850°F (454°C) in applications such as engine exhaust.

When using RFB products in copper or brass water systems, dielectric flanges must be used on each end to prevent leakage from galvanic action.

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

| QTY | SIZE | TAG |
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| QTY | SIZE | TAG |
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Certification Form S-514 04/2016

DWN

CHKD

DATE

DWG No.