



MASON INDUSTRIES, Inc.

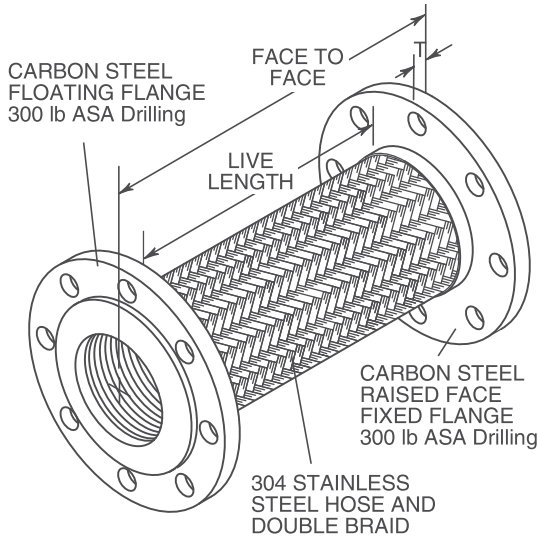
MERCER RUBBER Co.

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

**FFL
2B300**
 DOUBLE BRAIDED
 HOSE with FIXED &
 FLOATING FLANGES
 ASA-300



RATED PRESSURES @ ELEVATED TEMPERATURES (psi) (kg/cm²) **SATURATED STEAM RECOMMENDED PRESSURE LIMITS**

| Hose Size (in) (mm) | 250°F 121°C Factor 0.92 | | | 350°F 176°C Factor 0.86 | | | 450°F 232°C Factor 0.81 | | |
|---------------------|----------------------------|--------------------|-----|----------------------------|-----|--------------------|----------------------------|---------------------------------------|-------------------------|
| | psi | kg/cm ² | psi | kg/cm ² | psi | kg/cm ² | Size (in) (mm) | Max Gauge (psi) (kg/cm ²) | Temp Reference (F) (°C) |
| 2 50 | 460 | 31 | 430 | 29 | 405 | 28 | 2 50 | 200 14 | 388 198 |
| 2 1/2 65 | 460 | 31 | 430 | 29 | 405 | 28 | 2 1/2 65 | 150 10 | 362 183 |
| 3 80 | 345 | 24 | 323 | 22 | 304 | 21 | 3 80 | 150 10 | 362 183 |
| 4 100 | 345 | 24 | 323 | 22 | 304 | 21 | 4 100 | 150 10 | 362 183 |
| 5 125 | 345 | 24 | 323 | 22 | 304 | 21 | 5 125 | 125 9 | 355 179 |
| 6 150 | 345 | 24 | 323 | 22 | 304 | 21 | 6 150 | 125 9 | 355 179 |
| 8 200 | 216 | 15 | 202 | 14 | 190 | 13 | 8 200 | 90 6 | 330 166 |
| 10 250 | 193 | 13 | 181 | 12 | 170 | 11 | 10 250 | 75 5 | 307 153 |
| 12 300 | 156 | 11 | 146 | 10 | 138 | 9 | 12 300 | 60 4 | 307 153 |

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.

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

When using FFL2B300 products in copper or brass water or steam systems, dielectric flanges must be used on each end to prevent leakage from galvanic action.

CARBON STEEL PLATE FLANGE THICKNESS

| Pipe Size (in) | Flange Thickness T (in) (mm) |
|------------------------|------------------------------|
| 2 thru 4 50 thru 100 | 3/4 19 |
| 5 thru 6 125 thru 150 | 1 25 |
| 8 thru 12 200 thru 300 | 1 1/4 32 |

*Lateral Offset one side of centerline and normal machinery vibration. If intermittent in both directions, reduce by 50%.

¹Face to Face Tolerances:
 Sizes 2" - 4" (50 - 100mm), ±1/4" (6mm);
 Sizes 5" - 8" (125 - 200mm), ±3/8" (9mm);
 Sizes 10"+ (250mm), ±1/2" (13mm)

¹¹Minimum Burst is four times the Rated Pressure. Safety factor of 4.

FFL2B300 DIMENSIONS AND PRESSURE RATINGS (British Units)

| Pipe Size & Face to Face ¹ (in) | Live Length (in) | Maximum Permanent Lateral Offset* (in) | Corrugations per foot | Rated Pressure @ 70°F ¹¹ (psi) |
|--|------------------|--|-----------------------|---|
| 2 X 12 | 91/8 | 3/4 | 58 | 500 |
| 2 1/2 X 12 | 91/8 | 5/8 | 48 | 500 |
| 3 X 12 | 91/8 | 1/2 | 46 | 375 |
| 4 X 18 | 147/8 | 3/4 | 32 | 375 |
| 5 X 18 | 147/8 | 5/8 | 29 | 375 |
| 6 X 18 | 147/8 | 1/2 | 25 | 375 |
| 8 X 24 | 197/8 | 1 | 23 | 235 |
| 10 X 24 | 197/8 | 3/4 | 21 | 210 |
| 12 X 24 | 197/8 | 1/2 | 20 | 170 |

FFL2B300 DIMENSIONS AND PRESSURE RATINGS (Metric Units)

| Pipe Size & Face to Face ¹ (mm) | Live Length (mm) | Maximum Permanent Lateral Offset* (mm) | Corrugations per meter | Rated Pressure @ 21°C ¹¹ (kg/cm ²) |
|--|------------------|--|------------------------|---|
| 50 X 305 | 232 | 19 | 190 | 35 |
| 65 X 305 | 232 | 16 | 157 | 35 |
| 80 X 305 | 232 | 13 | 151 | 26 |
| 100 X 457 | 378 | 19 | 105 | 26 |
| 125 X 457 | 378 | 16 | 95 | 26 |
| 150 X 457 | 378 | 13 | 82 | 26 |
| 200 X 610 | 505 | 25 | 75 | 16 |
| 250 X 610 | 505 | 19 | 69 | 14 |
| 300 X 610 | 505 | 13 | 66 | 11 |

| QUANTITY | SIZE | TAG |
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