



MASON INDUSTRIES, Inc.

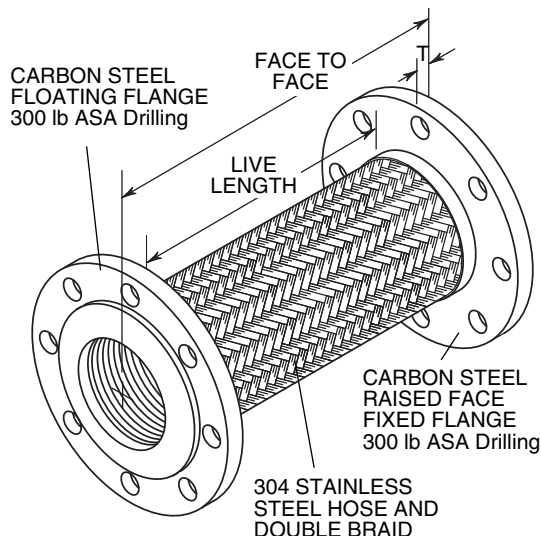
MERCER RUBBER Co.

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. _____

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



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

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
2 50	460 31	430 29	405 28
2 1/2 65	460 31	430 29	405 28
3 80	345 24	323 22	304 21
4 100	345 24	323 22	304 21
5 125	345 24	323 22	304 21
6 150	345 24	323 22	304 21
8 200	216 15	202 14	190 13
10 250	193 13	181 12	170 11
12 300	156 11	146 10	138 9

**SATURATED STEAM
RECOMMENDED PRESSURE LIMITS**

Size (in) (mm)	Max Gauge (psi) (kg/cm ²)	Temp Reference (F) (°C)
2 50	200 14	388 198
2 1/2 65	150 10	362 183
3 80	150 10	362 183
4 100	150 10	362 183
5 125	125 9	355 179
6 150	125 9	355 179
8 200	90 6	330 166
10 250	75 5	307 153
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%.

[†]Face 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)

^{††}Minimum Burst is four times the Rated Pressure. Safety factor of 4.

**FFL2B300 DIMENSIONS AND
PRESSURE RATINGS (British Units)**

Pipe Size & Face to Face [†] (in)	Live Length (in)	Maximum Permanent Lateral Offset* (in)	Corru- gations per foot	Rated Pressure @70°F ^{††} (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 [†] (mm)	Live Length (mm)	Maximum Permanent Lateral Offset* (mm)	Corru- gations per meter	Rated Pressure @21°C ^{††} (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



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

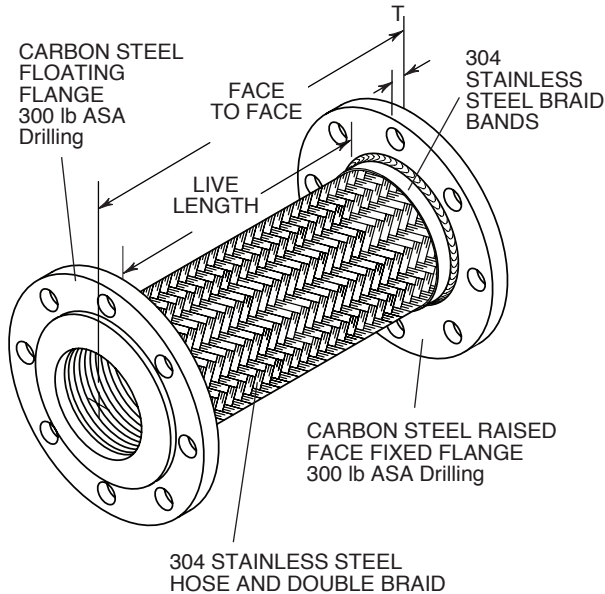


JOB NAME _____
CUSTOMER _____
CUSTOMER P.O. _____
MASON M. _____
DWG No. _____

FFL-2B300

SS DOUBLE BRAIDED
HOSE with CARBON
STEEL FIXED &
FLOATING FLANGES
ASA-300

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



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

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
2 50	460 31	430 29	405 28
2 1/2 65	460 31	430 29	405 28
3 80	345 24	323 22	304 21
4 100	345 24	323 22	304 21
5 125	345 24	323 22	304 21
6 150	345 24	323 22	304 21
8 200	216 15	202 14	190 13
10 250	193 13	181 12	170 11
12 300	156 11	146 10	138 9

**SATURATED STEAM
RECOMMENDED PRESSURE LIMITS**

Size (in) (mm)	Max Gauge (psi) (kg/cm ²)	Temp Reference (F) (°C)
2 50	200 14	388 198
2 1/2 65	150 10	362 183
3 80	150 10	362 183
4 100	150 10	362 183
5 125	125 9	355 179
6 150	125 9	355 179
8 200	90 6	330 166
10 250	75 5	307 153
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 FFL-2B300 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

Face to Face Tolerance: minus 1% plus 3%. Minimum Burst is four times the Rated Pressure. Safety factor of 4. Lateral Offset one side of centerline and normal machinery vibration. If intermittent in both directions, reduce by 50%.

**FFL-2B300 DIMENSIONS AND
PRESSURE RATINGS (American Units)**

Pipe Size & Face to Face (in)	Live Length (in)	Corru- gations per foot	Maximum Permanent Lateral Offset (in)	Rated Pressure @70°F (psi)
2 X 12	93/8	58	1	500
2 1/2 X 12	87/8	48	7/8	500
3 X 12	87/8	46	3/4	375
4 X 12	87/8	32	5/8	375
4 X 18	147/8	32	1 1/4	375
5 X 18	141/4	29	1 1/8	375
6 X 18	141/4	25	7/8	375
8 X 24	191/2	23	1 1/4	235
10 X 24	191/2	21	1 1/8	210
12 X 24	191/2	20	7/8	170

**FFL-2B300 DIMENSIONS AND
PRESSURE RATINGS (Metric Units)**

Pipe Size & Face to Face (mm)	Live Length (mm)	Corru- gations per meter	Maximum Permanent Lateral Offset (mm)	Rated Pressure @21°C (kg/cm ²)
50 X 305	238	190	25	35
65 X 305	225	157	22	35
80 X 305	225	151	19	26
100 X 305	225	105	16	26
100 X 457	378	105	32	26
125 X 457	362	95	29	26
150 X 457	362	82	22	26
200 X 610	495	75	32	16
250 X 610	495	69	29	14
300 X 610	495	66	22	11

QUANTITY	SIZE	TAG



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. _____

FFL2B300-UL

SS DOUBLE BRAIDED
HOSE with CARBON
STEEL 300# FIXED &
FLOATING FLANGES for
SPRINKLER and FIRE
PROTECTION SYSTEMS

Full Vacuum Rating— 30" (762mm) Hg

CARBON STEEL
FLOATING FLANGE
300 lb ASA Drilling

FACE
TO FACE

LIVE
LENGTH

CARBON STEEL
RAISED FACE FIXED
FLANGE 300 lb ASA
Drilling

304 STAINLESS
STEEL BRAID
BANDS

304 STAINLESS STEEL
HOSE AND DOUBLE BRAID



FLEXIBLE JOINT FITTINGS
3VX9



NFPA 13

These flexible joint fitting assemblies are UL Listed under File EX15750 and are intended for installation in accordance with the Mason installation instructions and the applicable requirements in NFPA 13.

Mason Industries ensures for all UL Listed Products:

1. All hose dimensions meet our specifications and dimensions as tabulated.
2. Each assembly is pressure tested using Nitrogen Gas for 1 minute at 1 1/2 times the rated working pressure with no leaks.
3. A metal tag is attached which shows the UL Mark and Identification Number, our name, the location (US), and the Part Number with the approval date (month and year).
4. Two product stickers which show the UL Mark and Identification Number are on each shipping crate.

CARBON STEEL PLATE FLANGE THICKNESS

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

Conforms to UL and NFPA
Approved Temperature Range.

FFL2B300-UL DIMENSIONS AND PRESSURE RATINGS (American Units)

Type	Pipe Size & Face to Face (in)	Live Length (in)	Corru- gations per foot	Maximum Permanent Lateral Offset(in)	Rated Pressure @70°F (psi)
FFL2B300-UL	2 X 12	93/8	58	1	300
FFL2B300-UL	2 X 18	153/8	58	2 1/4	300
FFL2B300-UL	2 X 24	213/8	58	4 1/2	300
FFL2B300-UL	2 1/2 X 12	87/8	48	7/8	300
FFL2B300-UL	2 1/2 X 18	147/8	48	2	300
FFL2B300-UL	2 1/2 X 24	207/8	48	4 1/4	300
FFL2B300-UL	3 X 12	87/8	46	3/4	300
FFL2B300-UL	3 X 18	147/8	46	1 1/2	300
FFL2B300-UL	3 X 24	207/8	46	3 1/2	300
FFL2B300-UL	3 X 36	327/8	46	7	300
FFL2B300-UL	4 X 12	87/8	32	5/8	300
FFL2B300-UL	4 X 18	147/8	32	1 1/4	300
FFL2B300-UL	4 X 24	207/8	32	3	300
FFL2B300-UL	4 X 36	327/8	32	6	300
FFL2B300-UL	5 X 18	141/4	29	1 1/8	300
FFL2B300-UL	5 X 24	201/4	29	2	300
FFL2B300-UL	5 X 36	321/4	29	5	300
FFL2B300-UL	6 X 18	141/4	25	7/8	300
FFL2B300-UL	6 X 24	201/4	25	1 3/4	300
FFL2B300-UL	6 X 36	321/4	25	4	300
FFL2B300-UL	8 X 18	131/2	23	3/4	175
FFL2B300-UL	8 X 24	191/2	23	1 1/4	175
FFL2B300-UL	8 X 36	311/2	23	3 1/2	175

FFL2B300-UL DIMENSIONS AND PRESSURE RATINGS (Metric Units)

Type	Pipe Size & Face to Face (mm)	Live Length (mm)	Corru- gations per meter	Maximum Permanent Lateral Offset(mm)	Rated Pressure @21°C (kg/cm²)
FFL2B300-UL	50 X 305	238	190	25	20
FFL2B300-UL	50 X 457	391	190	57	20
FFL2B300-UL	50 X 610	543	190	114	20
FFL2B300-UL	65 X 305	225	157	22	20
FFL2B300-UL	65 X 457	378	157	51	20
FFL2B300-UL	65 X 610	530	157	108	20
FFL2B300-UL	80 X 305	225	151	19	20
FFL2B300-UL	80 X 457	378	151	38	20
FFL2B300-UL	80 X 610	530	151	89	20
FFL2B300-UL	80 X 914	835	151	178	20
FFL2B300-UL	100 X 305	225	105	16	20
FFL2B300-UL	100 X 457	378	105	32	20
FFL2B300-UL	100 X 610	530	105	76	20
FFL2B300-UL	100 X 914	835	105	152	20
FFL2B300-UL	125 X 457	362	95	29	20
FFL2B300-UL	125 X 610	514	95	51	20
FFL2B300-UL	125 X 914	819	95	127	20
FFL2B300-UL	150 X 457	362	82	22	20
FFL2B300-UL	150 X 610	514	82	44	20
FFL2B300-UL	150 X 914	819	82	102	20
FFL2B300-UL	200 X 457	343	75	19	12
FFL2B300-UL	200 X 610	495	75	32	12
FFL2B300-UL	200 X 914	800	75	89	12

Face to Face Tolerance: minus 1% plus 3%. Minimum Burst is four times the Rated Pressure. Safety factor of 4.
Lateral Offset one side of centerline and normal machinery vibration. If intermittent in both directions, reduce by 50%.

QTY	SIZE	TAG

QTY	SIZE	TAG

Certification Form S-563 10/2013

DWN

CHKD

DATE

DWG No.