



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



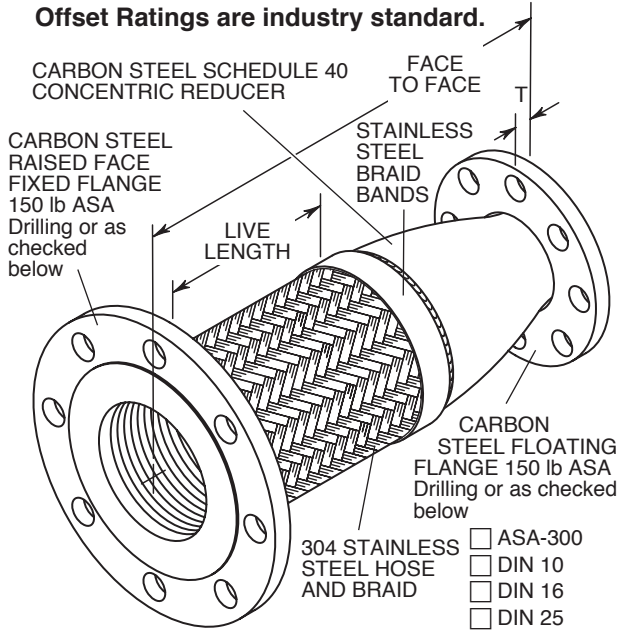
JOB NAME _____
 CUSTOMER _____
 CUSTOMER P.O. _____
 MASON M. _____
 DWG No. _____

RFFL

**SS BRAIDED HOSE
 REDUCER with
 CARBON STEEL
 FIXED & FLOATING
 FLANGES**

Industry Standard Pump Connectors

Short lengths conserve space but allow minimum motion and attenuation. Offset Ratings are industry standard.



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 1/2 65	270 19	250 17	235 16	3 80	260 18	240 16
4 100	210 15	200 14	190 13	5 125	190 13	180 12	170 11
6 150	190 13	180 12	170 11	8 200	190 13	180 12	170 11
10 250	160 11	150 10	140 9	12 300	160 11	150 10	140 9

SATURATED STEAM RECOMMENDED PRESSURE LIMITS

Size (in) (mm)	Max Gauge (psi) (kg/cm²)		Temp Reference (F) (°C)	
2 1/2 65	125 9	9	355 179	179
3 80	125 9	9	355 179	179
4 100	125 9	9	355 179	179
5 125	100 7	7	337 169	169
6 150	100 7	7	337 169	169
8 200	75 5	5	320 160	160
10 250	60 4	4	307 153	153
12 300	60 4	4	307 153	153

Full Vacuum Rating-30" (762mm) Hg

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.

CARBON STEEL PLATE FLANGE THICKNESS

Pipe Size (in)	Flange Thickness T (in) (mm)
2 1/2 thru 4 65 thru 100	5/8 16
5 thru 6 125 thru 150	3/4 19
8 thru 12 200 thru 300	1 25

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

RFFL DIMENSIONS AND PRESSURE RATINGS (American Units)

Type	Pipe Sizes- Large End X Small End (in)	Face to Face (in)	Live Length (in)	Corrugations per foot	Maximum Permanent Lateral Offset (in)	Rated Pressure @70°F (psi)
RFFL	2 1/2 X 2	14	7 3/4	48	1/8	290
RFFL	3 X 2	14	7 3/4	46	1/8	280
RFFL	3 X 2 1/2	14	7 3/4	46	1/8	280
RFFL	4 X 2	14	7 1/4	32	1/8	225
RFFL	4 X 2 1/2	14	7 1/4	32	1/8	225
RFFL	4 X 3	14	7 1/4	32	1/8	225
RFFL	5 X 3	17	9 1/8	29	1/8	200
RFFL	5 X 4	17	9 1/8	29	1/8	200
RFFL	6 X 3	18	9 5/8	25	1/8	200
RFFL	6 X 4	18	9 5/8	25	1/8	200
RFFL	6 X 5	18	9 5/8	25	1/8	200
RFFL	8 X 4	18	8 7/8	23	1/8	200
RFFL	8 X 5	18	8 7/8	23	1/8	200
RFFL	8 X 6	18	8 7/8	23	1/8	200
RFFL	10 X 6	20	9 7/8	21	1/8	170
RFFL	10 X 8	20	9 7/8	21	1/8	170
RFFL	12 X 10	22	10 7/8	20	1/8	170

RFFL DIMENSIONS AND PRESSURE RATINGS (Metric Units)

Type	Pipe Sizes- Large End X Small End (mm)	Face to Face (mm)	Live Length (mm)	Corrugations per meter	Maximum Permanent Lateral Offset (mm)	Rated Pressure @21°C (kg/cm²)
RFFL	65 X 51	356	197	157	3	20
RFFL	80 X 51	356	197	151	3	19
RFFL	80 X 64	356	197	151	3	19
RFFL	100 X 51	356	184	105	3	15
RFFL	100 X 64	356	184	105	3	15
RFFL	100 X 76	356	184	105	3	15
RFFL	125 X 76	432	232	95	3	14
RFFL	125 X 102	432	232	95	3	14
RFFL	150 X 76	475	244	82	3	14
RFFL	150 X 102	475	244	82	3	14
RFFL	150 X 127	475	244	82	3	14
RFFL	200 X 102	475	225	75	3	14
RFFL	200 X 127	475	225	75	3	14
RFFL	200 X 152	475	225	75	3	14
RFFL	250 X 152	508	251	69	3	11
RFFL	250 X 203	508	251	69	3	11
RFFL	300 X 254	559	276	69	3	11

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%. Size 12" (300mm) has double braid.

QTY	SIZE	TAG

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