



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

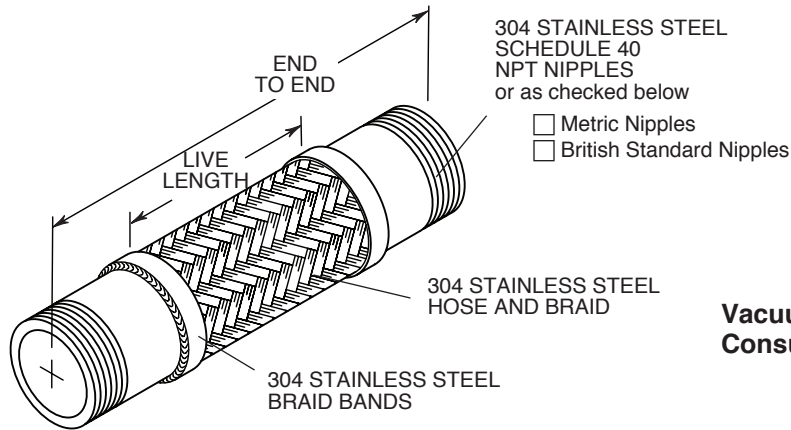
350 Rabro Drive, Hauppauge, NY 11788
Mason- 631/348-0282 • Info@Mason-Ind.com
Mercer- 631/582-1524 • Info@Mercer-Rubber.com
FAX 631/348-0279



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

MNSS

SS BRAIDED HOSE
with STAINLESS
STEEL THREADED
NIPPLES



Industry Standard Pump Connectors

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

**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
1/2 15	1010 69	950 59	890 61
3/4 20	640 44	600 41	570 39
1 25	530 36	500 34	470 32
1 1/4 32	460 32	430 30	400 28
1 1/2 40	400 28	370 26	350 24
2 50	330 23	310 21	290 20
2 1/2 65	270 19	250 17	235 16
3 80	260 18	240 16	230 16
4 100	210 15	200 14	190 13

SATURATED STEAM RECOMMENDED PRESSURE LIMITS

Size (in) (mm)	Max Gauge (psi) (kg/cm ²)	Temp Reference (°F) (°C)
1/2 15	200 14	387 197
3/4 20	200 14	387 197
1 25	150 11	362 183
1 1/4 32	150 11	362 183
1 1/2 40	150 11	362 183
2 50	150 11	362 183
2 1/2 65	125 9	355 179
3 80	125 9	355 179
4 100	125 9	355 179

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 MNSS products in copper or brass water or steam systems, dielectric unions must be used on each end to prevent leakage from galvanic action.

MNSS DIMENSIONS AND PRESSURE RATINGS (American Units)

Type	Pipe Size & End to End (in)	Live Length (in)	Corru- gations per foot	Maximum Permanent Lateral Offset (in)	Rated Pressure @70°F (psi)
MNSS	1/2 x 6 1/2	25/8	92	1/8	1100
MNSS	3/4 x 7	31/8	80	1/8	700
MNSS	1 x 8	35/8	72	1/8	580
MNSS	1 1/4 x 8 1/2	35/8	67	1/8	480
MNSS	1 1/2 x 9	41/8	63	1/8	450
MNSS	2 x 10 1/2	51/4	58	1/8	360
MNSS	2 1/2 x 12	5	48	1/8	290
MNSS	3 x 12	5	46	1/8	280
MNSS	4 x 12	5	32	1/8	225

MNSS DIMENSIONS AND PRESSURE RATINGS (Metric Units)

Type	Pipe Size & End to End (mm)	Live Length (mm)	Corru- gations per meter	Maximum Permanent Lateral Offset (mm)	Rated Pressure @21°C (kg/cm ²)
MNSS	15 x 165	67	302	3	77
MNSS	20 x 178	80	262	3	49
MNSS	25 x 203	93	236	3	40
MNSS	32 x 216	94	220	3	33
MNSS	40 x 229	107	207	3	31
MNSS	50 x 267	135	190	3	25
MNSS	65 x 305	127	157	3	20
MNSS	80 x 305	127	151	3	19
MNSS	100 x 305	127	105	3	15

End to End 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



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. _____

MNSS

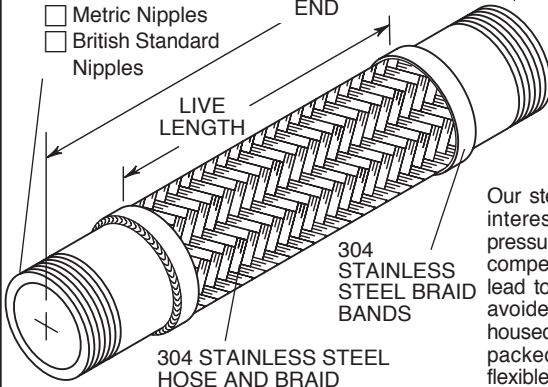
**SS BRAIDED HOSE
with STAINLESS
STEEL THREADED
NIPPLES**

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

304 STAINLESS STEEL
SCHEDULE 40
NPT NIPPLES

or as checked below

- ☐ Metric Nipples
☐ British Standard
Nipples



**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
1/2 15	1010 69	950 59	890 61
3/4 20	640 44	600 41	570 39
1 25	530 36	500 34	470 32
1 1/4 32	460 32	430 30	400 28
1 1/2 40	400 28	370 26	350 24
2 50	330 23	310 21	290 20
2 1/2 65	270 19	250 17	235 16
3 80	260 18	240 16	230 16
4 100	210 15	200 14	190 13

**SATURATED STEAM
RECOMMENDED PRESSURE LIMITS**

Size (in) (mm)	Max Gauge (psi)(kg/cm ²)	Temp Reference (°F) (°C)
1/2 15	200 14	387 197
3/4 20	200 14	387 197
1 25	150 11	362 183
1 1/4 32	150 11	362 183
1 1/2 40	150 11	362 183
2 50	150 11	362 183
2 1/2 65	125 9	355 179
3 80	125 9	355 179
4 100	125 9	355 179

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 MNSS products in copper or brass water or steam systems, dielectric unions must be used on each end to prevent leakage from galvanic action.

MNSS DIMENSIONS AND PRESSURE RATINGS (American Units)

Type	Pipe Size & End to End (in)	Live Length (in)	Corru- gations per foot	Maximum Permanent Lateral Offset (in)	Rated Pressure @70°F (psi)
MNSS	1/2 x 12	81/8	92	11/4	1100
MNSS	1/2 x 18	141/8	92	4	1100
MNSS	1/2 x 24	201/8	92	7 1/2	1100
MNSS	1/2 x 36	321/8	92	16	1100
MNSS	3/4 x 12	81/8	80	11/8	700
MNSS	3/4 x 18	141/8	80	3 1/2	700
MNSS	3/4 x 24	201/8	80	7	700
MNSS	3/4 x 36	321/8	80	14	700
MNSS	1 x 12	75/8	72	1	580
MNSS	1 x 18	135/8	72	3	580
MNSS	1 x 24	195/8	72	6 1/2	580
MNSS	1 x 36	315/8	72	11	580
MNSS	1 1/4 x 12	71/8	67	3/4	480
MNSS	1 1/4 x 18	131/8	67	2 1/4	480
MNSS	1 1/4 x 24	191/8	67	5	480
MNSS	1 1/4 x 36	311/8	67	10	480
MNSS	1 1/2 x 12	71/8	63	5/8	450
MNSS	1 1/2 x 18	131/8	63	2	450
MNSS	1 1/2 x 24	191/8	63	4 1/2	450
MNSS	1 1/2 x 36	311/8	63	9	450
MNSS	2 x 12	63/4	58	3/8	360
MNSS	2 x 18	123/4	58	1 1/2	360
MNSS	2 x 24	183/4	58	3 3/4	360
MNSS	2 x 36	303/4	58	8	360
MNSS	2 1/2 x 18	11	48	1 1/4	290
MNSS	2 1/2 x 24	17	48	3	290
MNSS	2 1/2 x 36	29	48	7	290
MNSS	3 x 18	11	46	1	280
MNSS	3 x 24	17	46	2 1/2	280
MNSS	3 x 36	29	46	6	280
MNSS	4 x 18	11	32	3/4	225
MNSS	4 x 24	17	32	13/4	225
MNSS	4 x 36	29	32	5	225

MNSS DIMENSIONS AND PRESSURE RATINGS (Metric Units)

Type	Pipe Size & End to End (mm)	Live Length (mm)	Corru- gations per meter	Maximum Permanent Lateral Offset (mm)	Rated Pressure @21°C (kg/cm ²)
MNSS	15 x 305	207	302	32	77
MNSS	15 x 457	359	302	102	77
MNSS	15 x 610	512	302	191	77
MNSS	15 x 914	816	302	406	77
MNSS	20 x 305	207	262	29	49
MNSS	20 x 457	359	262	89	49
MNSS	20 x 610	512	262	178	49
MNSS	20 x 914	816	262	356	49
MNSS	25 x 305	194	236	25	40
MNSS	25 x 457	347	236	76	40
MNSS	25 x 610	499	236	165	40
MNSS	25 x 914	804	236	279	40
MNSS	32 x 305	183	220	19	33
MNSS	32 x 457	335	220	57	33
MNSS	32 x 610	488	220	127	33
MNSS	32 x 914	792	220	254	33
MNSS	40 x 305	183	207	16	31
MNSS	40 x 457	335	207	51	31
MNSS	40 x 610	488	207	214	31
MNSS	40 x 914	792	207	229	31
MNSS	50 x 305	173	190	10	25
MNSS	50 x 457	325	190	38	25
MNSS	50 x 610	478	190	95	25
MNSS	50 x 914	782	190	203	25
MNSS	65 x 457	279	157	32	20
MNSS	65 x 610	432	157	76	20
MNSS	65 x 914	737	157	178	20
MNSS	80 x 457	279	151	25	19
MNSS	80 x 610	432	151	65	19
MNSS	80 x 914	737	151	152	19
MNSS	100 x 457	279	105	19	15
MNSS	100 x 610	432	105	44	15
MNSS	100 x 914	737	105	127	15

End to End 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-5076 04/201

DWN

CHKD

DATE

DWG No.