



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

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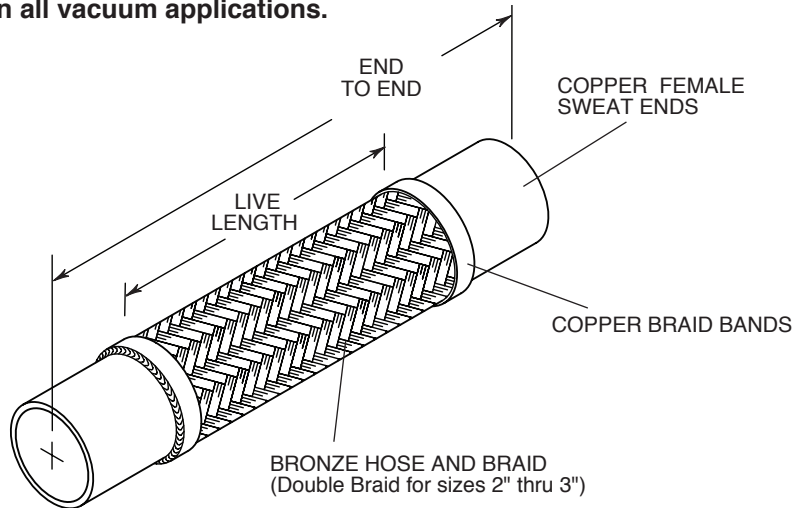


JOB NAME _____
CUSTOMER _____
CUSTOMER P.O. _____
MASON M. _____
DWG No. _____

CPSB-MG

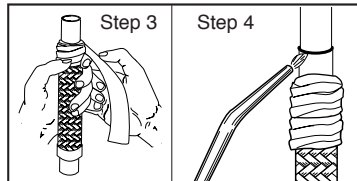
MEDICAL GAS
RATED BRAIDED
BRONZE HOSE
with COPPER
SWEAT ENDS

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



INSTALLATION:

1. Thoroughly clean male and female ends using steel wool and steel brushes.
2. Nitrogen purge— flux not permitted.
3. Wrap base of copper fitting on connector and 2" (51mm) of the braid with a wet cloth to prevent overheating during soldering.
4. Direct the torch away from the base of the copper fitting and braided section. Avoid contact of the flame with the base of the copper fitting and braid. Heat end of copper fitting for proper flow of braze.
5. Use caution with brazing rod or other higher temperature techniques. Overheating will cause leaks.
6. Remove wet cloth immediately after installation.



~~NOTE: CPSB-MG hoses are cleaned and bagged for medical gas applications per CGA G-4.1. Manufactured in accordance with NFPA99 Requirements.~~

Cleaning Not Available Temporarily.
Contact Mason Industries for more information.

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)	150°F 66°C Factor 0.92	300°F 149°C Factor 0.83	400°F 204°C Factor 0.78
1/2 15	460 32	415 29	390 27
3/4 20	432 30	390 27	367 25
1 25	414 29	373 26	351 24
1 1/4 32	368 25	332 23	312 22
1 1/2 40	308 21	278 19	261 18
2 50	460 32	415 29	390 27
2 1/2 65	400 28	361 25	339 24
3 80	296 21	267 19	251 18

When using these products in stainless steel water systems, dielectric unions must be used on each end to prevent leakage from galvanic action.

CPSB-MG DIMENSIONS AND PRESSURE RATINGS (American Units)

Type	Tubing Size & End to End (in)	Live Length (in)	Corrugations per foot	Maximum Permanent Lateral Offset (in)	Rated Pressure @ 70°F (psi)
CPSB-MG	1/2 X 6 1/2	23/4	73	1/8	500
CPSB-MG	3/4 X 7	23/4	67	1/8	470
CPSB-MG	1 X 8	33/8	58	1/8	450
CPSB-MG	1 1/4 X 8 1/2	33/4	55	1/8	400
CPSB-MG	1 1/2 X 9	4	53	1/8	335
CPSB-MG	2 X 12*	6 1/2	51	1/4	500
CPSB-MG	2 1/2 X 12*	43/4	34	1/8	435
CPSB-MG	3 X 12*	4 1/2	30	1/8	322

CPSB-MG DIMENSIONS AND PRESSURE RATINGS (Metric Units)

Type	Tubing Size & End to End (mm)	Live Length (mm)	Corrugations per meter	Maximum Permanent Lateral Offset (mm)	Rated Pressure @ 21°C (kg/cm ²)
CPSB-MG	15 X 165	70	240	3	35
CPSB-MG	20 X 178	70	220	3	33
CPSB-MG	25 X 203	86	190	3	31
CPSB-MG	32 X 216	95	180	3	28
CPSB-MG	40 X 229	102	174	3	23
CPSB-MG	50 X 305*	165	167	6	35
CPSB-MG	65 X 305*	121	112	3	31
CPSB-MG	80 X 305*	114	98	3	23

*Sizes 2" to 3" are double braided. Assembly is able to withstand intermittent temperature of 1000°F (538°C).

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

Female end fits over copper tubing, e.g. 1/2" x 6 1/2" (15 x 165mm) fits over 1/2" (15mm) tubing.

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

QTY	SIZE	TAG

QTY	SIZE	TAG



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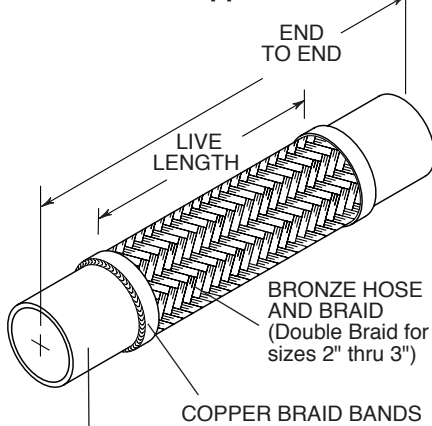


JOB NAME _____
CUSTOMER _____
CUSTOMER P.O. _____
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DWG No. _____

CPSB-MG

**MEDICAL GAS
RATED BRAIDED
BRONZE HOSE
with COPPER
SWEAT ENDS**

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



COPPER FEMALE
SWEAT ENDS

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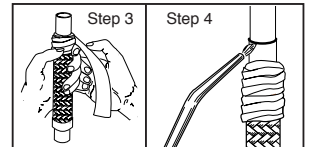
When using these products in stainless steel water systems, dielectric unions must be used on each end to prevent leakage from galvanic action.

INSTALLATION:

1. Thoroughly clean male and female ends using steel wool and steel brushes.
2. Nitrogen purge— flux not permitted.
3. Wrap base of copper fitting on connector and 2" (51mm) of the braid with a wet cloth to prevent overheating during soldering.
4. Direct the torch away from the base of the copper fitting and braided section. Avoid contact of the flame with the base of the copper fitting and braid. Heat end of copper fitting for proper flow of braze.
5. Use caution with brazing rod or other higher temperature techniques. Overheating will cause leaks.
6. Remove wet cloth immediately after installation.

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

Hose Size (in) (mm)	150°F 66°C Factor 0.92	300°F 149°C Factor 0.83	400°F 204°C Factor 0.78
1/2 15	460 32	415 29	390 27
3/4 20	432 30	390 27	367 25
1 25	414 29	373 26	351 24
1 1/4 32	368 25	332 23	312 22
1 1/2 40	308 21	278 19	261 18
2 50	460 32	415 29	390 27
2 1/2 65	400 28	361 25	339 24
3 80	296 21	267 19	251 18



CPSB-MG DIMENSIONS AND PRESSURE RATINGS (American Units)

Type	Tubing Size & End to End (in)	Live Length (in)	Corrugations per foot	Maximum Permanent Lateral Offset (in)	Rated Pressure @70°F (psi)
CPSB-MG	1/2 X 12	81/4	73	1	500
CPSB-MG	1/2 X 18	141/4	73	3	500
CPSB-MG	1/2 X 24	201/4	73	6	500
CPSB-MG	1/2 X 36	321/4	73	12 1/2	500
CPSB-MG	3/4 X 12	73/4	67	3/4	470
CPSB-MG	3/4 X 18	133/4	67	2 1/2	470
CPSB-MG	3/4 X 24	193/4	67	5 1/2	470
CPSB-MG	3/4 X 36	313/4	67	11	470
CPSB-MG	1 X 12	73/8	58	5/8	450
CPSB-MG	1 X 18	133/8	58	2 1/4	450
CPSB-MG	1 X 24	193/8	58	5	450
CPSB-MG	1 X 36	313/8	58	8 1/2	450
CPSB-MG	1 1/4 X 12	71/4	55	1/2	400
CPSB-MG	1 1/4 X 18	131/4	55	13/4	400
CPSB-MG	1 1/4 X 24	191/4	55	4	400
CPSB-MG	1 1/4 X 36	311/4	55	8	400
CPSB-MG	1 1/2 X 12	7	53	1/2	335
CPSB-MG	1 1/2 X 18	13	53	1 1/2	335
CPSB-MG	1 1/2 X 24	19	53	3 1/2	335
CPSB-MG	1 1/2 X 36	31	53	7 1/2	335
CPSB-MG	2 X 12*	61/2	51	1/4	500
CPSB-MG	2 X 18*	121/2	51	13/8	500
CPSB-MG	2 X 24*	181/2	51	3 1/4	500
CPSB-MG	2 X 36*	301/2	51	7	500
CPSB-MG	2 1/2 X 18*	103/4	34	7/8	435
CPSB-MG	2 1/2 X 24*	163/4	34	2	435
CPSB-MG	2 1/2 X 36*	283/4	34	4 1/2	435
CPSB-MG	3 X 18*	101/2	30	3/4	322
CPSB-MG	3 X 24*	161/2	30	1 1/2	322
CPSB-MG	3 X 36*	281/2	30	4 1/4	322

CPSB-MG DIMENSIONS AND PRESSURE RATINGS (Metric Units)

Type	Tubing Size & End to End (mm)	Live Length (mm)	Corrugations per meter	Maximum Permanent Lateral Offset (mm)	Rated Pressure @21°C (kg/cm ²)
CPSB-MG	15 X 305	210	240	25	35
CPSB-MG	15 X 457	362	240	76	35
CPSB-MG	15 X 610	514	240	152	35
CPSB-MG	15 X 915	819	240	318	35
CPSB-MG	20 X 305	197	220	19	32
CPSB-MG	20 X 457	349	220	64	32
CPSB-MG	20 X 610	502	220	140	32
CPSB-MG	20 X 915	806	220	279	32
CPSB-MG	25 X 305	187	190	16	31
CPSB-MG	25 X 457	340	190	57	31
CPSB-MG	25 X 610	492	190	127	31
CPSB-MG	25 X 915	797	190	216	31
CPSB-MG	32 X 305	184	180	13	28
CPSB-MG	32 X 457	337	180	44	28
CPSB-MG	32 X 610	489	180	102	28
CPSB-MG	32 X 915	793	180	203	28
CPSB-MG	40 X 305	178	174	13	23
CPSB-MG	40 X 457	330	174	38	23
CPSB-MG	40 X 610	483	174	89	23
CPSB-MG	40 X 915	787	174	191	23
CPSB-MG	50 X 305*	165	167	6	35
CPSB-MG	50 X 457*	318	167	35	35
CPSB-MG	50 X 610*	470	167	83	35
CPSB-MG	50 X 915*	775	167	178	35
CPSB-MG	65 X 457*	273	112	22	31
CPSB-MG	65 X 610*	425	112	51	31
CPSB-MG	65 X 915*	730	112	114	31
CPSB-MG	80 X 457*	267	98	19	23
CPSB-MG	80 X 610*	419	98	38	23
CPSB-MG	80 X 915*	724	98	108	23

*Sizes 2" to 3" are double braided. Assembly is able to withstand intermittent temperature of 1000°F (538°C).

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

Female end fits over copper tubing, e.g. 1/2 x 12 (15 x 305mm) fits over 1/2" (15mm) tubing.

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

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Certification Form S-5179b 10/2023

DWN

CHKD

DATE

DWG No.