



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

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Mercer- 631/582-1524 • Info@Mercer-Rubber.com  
FAX 631/348-0279



JOB NAME \_\_\_\_\_  
CUSTOMER \_\_\_\_\_  
CUSTOMER P.O. \_\_\_\_\_  
MASON M. \_\_\_\_\_  
DWG No. \_\_\_\_\_

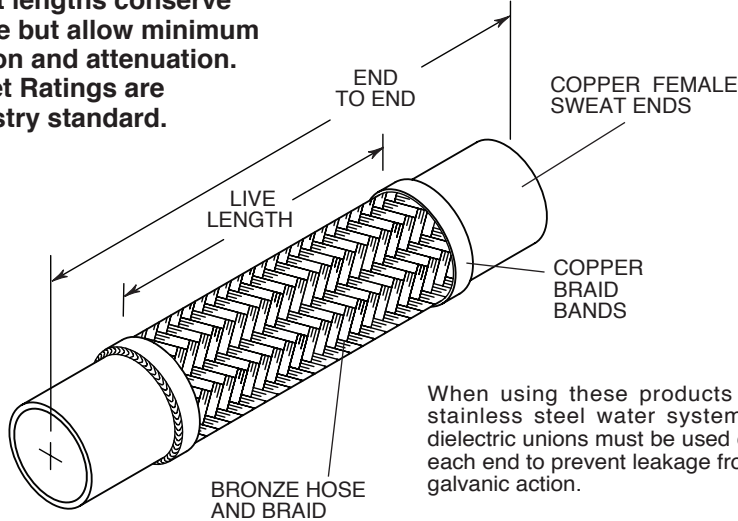
**CPSB-NSF**

BRONZE BRAIDED  
HOSE with COPPER  
SWEAT ENDS for  
DRINKING WATER  
SYSTEMS

## Industry Standard Pump Connectors

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

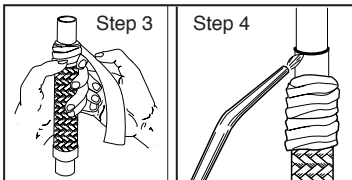
Vacuum rating varies with size and  
application. Consult factory on all  
vacuum applications.



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

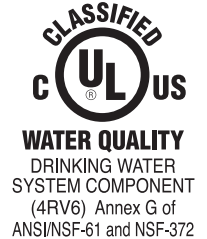
### INSTALLATION:

1. Thoroughly clean male and female ends using steel wool and steel brushes.
2. Apply flux.
3. Wrap base of copper fitting on connector and 2" (50mm) 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 silver solder. Silver solder flows at approximately 430°F (221°C).
5. Use caution with brazing rod or other higher temperature techniques. Overheating will cause leaks.
6. Remove wet cloth and remove all soldering flux immediately after installation. Flux chlorides will cause premature failure of joint.



**WARNING!** If additional chlorinating, sanitizing, or disinfecting is required for this system, granular chlorine is not recommended since it may leave behind undissolved granules that can cause corrosion and lead to premature failure of components. System must be thoroughly dechlorinated with clean water immediately after chlorination process. Failure to do so will void warranty. Mason recommends installing NSF Hoses vertically where feasible to promote drainage of chlorine.

**LEAD FREE:** The surface contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. These flexible joint fitting assemblies are UL Listed under File MH48651 and are intended for installation in accordance with the Mason installation instructions and the applicable requirements in Annex G of ANSI/NSF-61 and NSF-372.



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.

Conforms to UL and Annex G of ANSI/NSF-61 and NSF-372 Approved Temperature Range.

### CPSB-NSF 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-NSF	1/2 X 6 1/2	23/4	73	1/8	500
CPSB-NSF	3/4 X 7	23/4	67	1/8	470
CPSB-NSF	1 X 8	33/8	58	1/8	450
CPSB-NSF	1 1/4 X 8 1/2	33/4	55	1/8	400
CPSB-NSF	1 1/2 X 9	4	53	1/8	335
CPSB-NSF	2 X 12	61/2	51	1/4	235
CPSB-NSF	2 1/2 X 12	43/4	34	1/8	230
CPSB-NSF	3 X 12	41/2	30	1/8	225
CPSB-NSF	4 X 18	91/2	28	1/2	220

### CPSB-NSF 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/cm²)
CPSB-NSF	15 X 165	70	240	3	37
CPSB-NSF	20 X 178	70	220	3	32
CPSB-NSF	25 X 203	86	190	3	31
CPSB-NSF	32 X 216	95	180	3	28
CPSB-NSF	40 X 229	102	174	3	23
CPSB-NSF	50 X 305	165	167	6	16
CPSB-NSF	65 X 305	121	112	3	16
CPSB-NSF	80 X 305	114	98	3	15
CPSB-NSF	100 X 457	241	92	13	15

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

Certification Form S-5049 04/2016

DWN

CHKD

DATE

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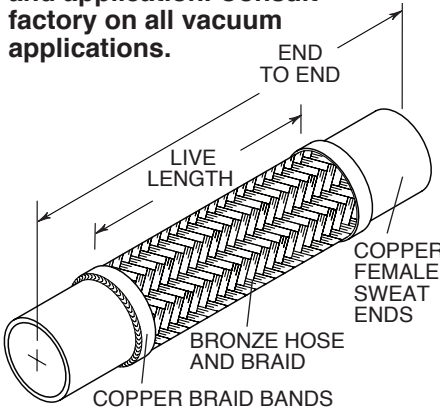


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**CPSB-NSF**

BRONZE BRAIDED  
HOSE with COPPER  
SWEAT ENDS for  
DRINKING WATER  
SYSTEMS

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



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

Conforms to UL and Annex G of ANSI/NSF-61 and NSF-372 Approved Temperature Range.

**WARNING!** If additional chlorinating, sanitizing, or disinfecting is required for this system, granular chlorine is not recommended since it may leave behind undissolved granules that can cause corrosion and lead to premature failure of components. System must be thoroughly dechlorinated with clean water immediately after chlorination process. Failure to do so will void warranty. Mason recommends installing NSF Hoses vertically where feasible to promote drainage of chlorine.

**INSTALLATION:**

1. Thoroughly clean male and female ends using steel wool and steel brushes.
2. Apply flux.
3. Wrap base of copper fitting on connector and 2" (50mm) 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 silver solder. Silver solder flows at approximately 430°F (221°C).
5. Use caution with brazing rod or other higher temperature techniques. Overheating will cause leaks.
6. Remove wet cloth and remove all soldering flux immediately after installation. Flux chlorides will cause premature failure of joint.

**LEAD FREE:** The surface contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight. These flexible joint fitting assemblies are UL Listed under File MH48651 and are intended for installation in accordance with the Mason installation instructions and the applicable requirements in Annex G of ANSI/NSF-61 and NSF-372.

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**WATER QUALITY**  
DRINKING WATER  
SYSTEM COMPONENT  
(4RV6) Annex G of  
ANSI/NSF-61 and NSF-372

**CPSB-NSF 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-NSF	1/2 X 12	81/4	73	1	500
CPSB-NSF	1/2 X 18	141/4	73	3	500
CPSB-NSF	1/2 X 24	201/4	73	6	500
CPSB-NSF	1/2 X 36	321/4	73	121/2	500
CPSB-NSF	3/4 X 12	73/4	67	3/4	470
CPSB-NSF	3/4 X 18	133/4	67	21/2	470
CPSB-NSF	3/4 X 24	193/4	67	51/2	470
CPSB-NSF	3/4 X 36	313/4	67	11	470
CPSB-NSF	1 X 12	73/8	58	5/8	450
CPSB-NSF	1 X 18	133/8	58	21/4	450
CPSB-NSF	1 X 24	193/8	58	5	450
CPSB-NSF	1 X 36	313/8	58	81/2	450
CPSB-NSF	1 1/4 X 12	71/4	55	1/2	400
CPSB-NSF	1 1/4 X 18	131/4	55	13/4	400
CPSB-NSF	1 1/4 X 24	191/4	55	4	400
CPSB-NSF	1 1/4 X 36	311/4	55	8	400
CPSB-NSF	1 1/2 X 12	7	53	1/2	335
CPSB-NSF	1 1/2 X 18	13	53	11/2	335
CPSB-NSF	1 1/2 X 24	19	53	31/2	335
CPSB-NSF	1 1/2 X 36	31	53	71/2	335
CPSB-NSF	2 X 12	61/2	51	1/4	235
CPSB-NSF	2 X 18	121/2	51	13/8	235
CPSB-NSF	2 X 24	181/2	51	31/4	235
CPSB-NSF	2 X 36	301/2	51	7	235
CPSB-NSF	2 1/2 X 18	103/4	34	7/8	230
CPSB-NSF	2 1/2 X 24	163/4	34	2	230
CPSB-NSF	2 1/2 X 36	283/4	34	41/2	230
CPSB-NSF	3 X 18	101/2	30	3/4	225
CPSB-NSF	3 X 24	161/2	30	11/2	225
CPSB-NSF	3 X 36	281/2	30	41/4	225
CPSB-NSF	4 X 24	151/2	28	11/4	220
CPSB-NSF	4 X 36	271/2	28	4	220

**CPSB-NSF 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/cm²)
CPSB-NSF	15 X 305	210	240	25	34
CPSB-NSF	15 X 457	362	240	76	34
CPSB-NSF	15 X 610	514	240	152	34
CPSB-NSF	15 X 915	819	240	318	34
CPSB-NSF	20 X 305	197	220	19	32
CPSB-NSF	20 X 457	349	220	64	32
CPSB-NSF	20 X 610	502	220	140	32
CPSB-NSF	20 X 915	806	220	279	32
CPSB-NSF	25 X 305	187	190	16	31
CPSB-NSF	25 X 457	340	190	57	31
CPSB-NSF	25 X 610	492	190	127	31
CPSB-NSF	25 X 915	797	190	216	31
CPSB-NSF	32 X 305	184	180	13	28
CPSB-NSF	32 X 457	337	180	44	28
CPSB-NSF	32 X 610	489	180	102	28
CPSB-NSF	32 X 915	793	180	203	28
CPSB-NSF	40 X 305	178	174	13	23
CPSB-NSF	40 X 457	330	174	38	23
CPSB-NSF	40 X 610	483	174	89	23
CPSB-NSF	40 X 915	787	174	191	23
CPSB-NSF	50 X 305	165	167	6	16
CPSB-NSF	50 X 457	318	167	35	16
CPSB-NSF	50 X 610	470	167	83	16
CPSB-NSF	50 X 915	775	167	178	16
CPSB-NSF	65 X 457	273	112	22	16
CPSB-NSF	65 X 610	425	112	51	16
CPSB-NSF	65 X 915	730	112	114	16
CPSB-NSF	80 X 457	267	98	19	15
CPSB-NSF	80 X 610	419	98	38	15
CPSB-NSF	80 X 915	724	98	108	15
CPSB-NSF	100 X 610	394	92	32	15
CPSB-NSF	100 X 915	699	92	102	15

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-5050a 06/2018

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