

# MASON INDUSTRIES, Inc. MERCER RUBBER Co.

350 Rabro Drive, Hauppauge, NY 11788

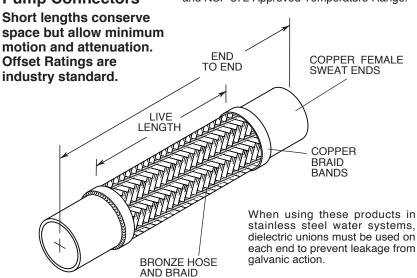
Mason-631/348-0282 • Info@Mason-Ind.com Mercer- 631/582-1524 • Info@Mercer-Rubber.com FAX 631/348-0279



**HOSE with COPPER** SWEAT ENDS for **DRINKING WATER SYSTEMS** 

### **Industry Standard Pump Connectors**

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



#### **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
- 5. Use caution with brazing rod or other higher temperature techniques. Overheating cause leaks.
- 6. Remove wet cloth and remove all soldering flux immediately after installation. Flux chlorides will cause premature failure of joint.





**WARNING!** If disinfecting (chlorinating) is required per the International Plumbing Code, AWWA C651, and AWWA C652, then tablets and granular chlorine (calcium hypochlorite), and chlorine for swimming pool disinfection CANNOT be used on our products. We recommend chlorinating with diluted liquid chlorine (sodium hypochlorite) and immediately flushing thoroughly with potable water, as defined in the above Code. All traces of chlorine must be removed, since residual chlorine will cause corrosion and lead to premature failure of our products. Failure to do so will void our warranty. Mason recommends installing hoses vertically where feasible to promote drainage of

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



### WATER QUALITY

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

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.

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

### CPSB-NSF DIMENSIONS AND PRESSURE RATINGS (American Units) CPSB-NSF DIMENSIONS AND PRESSURE RATINGS (Metric Units)

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Туре	Tubing Size & End to End (in)	Live Length (in)	Corru- gations per foot	Maximum Permanent Lateral Offset(in)	Rated Pressure @70°F (psi)		
CPSB-NSF	1/2 X 61/2	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	11/4 X 81/2	33/4	55	1/8	400		
CPSB-NSF	11/2 X 9	4	53	1/8	335		
CPSB-NSF	2 X 12	61/2	51	1/4	235		
CPSB-NSF	21/2 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		

Туре	Tubing Size & End to End (mm)	Live Length (mm)	Corru- gations 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 61/2 (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

DWN CHKD DATE DWG No. Certification Form S-5049 05/2019



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JOB NAME
CUSTOMER
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MASON M
DWG No.

**HOSE with COPPER** SWEAT ENDS for **DRINKING WATER SYSTEMS** 

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		AND B		COPPER FEMALE SWEAT ENDS

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 disinfecting (chlorinating) is required per the International Plumbing Code, AWWA C651, and AWWA C652, then tablets and granular chlorine (calcium hypochlorite), and chlorine for swimming pool disinfection CANNOT be used on our products. We recommend chlorinating with diluted liquid chlorine (sodium hypochlorite) and immediately flushing thoroughly with potable water, as defined in the above Code. All traces of chlorine must be removed, since residual chlorine will cause corrosion and lead to premature failure of our products. Failure to do so will void our warranty. Mason recommends installing 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 fit-

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

CLASSIFIE

ting 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:

CPSB-NSF DIMENSIONS AND PRESSURE RATINGS (Metric Units)

- 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<sup>1</sup>/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.

CPSB-NSF DIMENSIONS AND PRESSURE RATINGS (American Uni						
	Tubing Size & End to End	Live Length	Corru- gations per	Maximum Permanent Lateral	Rated Pressure @70°F	
Type	(in)	(in)	foot	Offset(in)	(psi)	
CPSB-NSF		81/4	73	1	500	
CPSB-NSF		141/4	73	3	500	
CPSB-NSF		201/4	73	6	500	
CPSB-NSF		321/4	73	12 <sup>1</sup> /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		73/8	58	5/8	450	
CPSB-NSF		133/8	58	21/4	450	
CPSB-NSF		193/8	58	5	450	
CPSB-NSF		313/8	58	81/2	450	
CPSB-NSF		71/4	55	1/2	400	
CPSB-NSF		131/4	55	13/4	400	
CPSB-NSF		191/4	55	4	400	
CPSB-NSF		311/4	55	8	400	
CPSB-NSF		7	53	1/2	335	
CPSB-NSF		13	53	11/2	335	
CPSB-NSF		19	53	31/2	335	
CPSB-NSF		31	53	71/2	335	
CPSB-NSF		61/2	51	1/4	235	
CPSB-NSF		121/2	51	13/8	235	
CPSB-NSF		181/2	51	31/4	235	
CPSB-NSF		301/2	51	7	235	
CPSB-NSF	21/2 X 18	103/4	34	7/8	230	
CPSB-NSF	21/2 X 24	163/4	34	2	230	
CPSB-NSF	21/2 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	1 <sup>1</sup> /4	220	
CPSB-NSF	4 X 36	271/2	28	4	220	

	Tubing Size & End to End	Live Length	Corru- gations per	Maximum Permanent Lateral	Rated Pressure @21°C
Type	(mm)	(mm)	meter	Offset(mm)	(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 CPSB-NSF CPSB-NSF CPSB-NSF	40 X 305 40 X 457 40 X 610 40 X 915	178 330 483 787	174 174 174 174	13 38 89 191	23 23 23 23 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.  $1/2 \times 12 (15 \times 305mm)$  fits over 1/2'' (15mm) tubing. Lateral Offset one side of centerline and normal machinery vibration. If intermittent in both directions, reduce by 50%.

QTY	SIZE	TAG		QTY	SIZE		TAG
		DWN	СНКВ	DA <sup>-</sup>	TF I	DWG No.	

Certification Form S-5050a 08/2019