

MASON INDUSTRIES, Inc. MERCER RUBBER Co.

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JOB NAME	VCPS
CUSTOMER P.O.	BRONZE BRA
MASON M.	60Vee HOSE \ COPPER FEM
DWG No.	SWEAT ENDS

_	VCPSB
_	BRONZE BRAIDED 60Vee HOSE with COPPER FEMALE

END TO END COPPER BRAID BANDS **BRONZE** COPPER **HOSE** and LIVE **FEMALE** BRAID LENGTH **SWEAT** В **ENDS** C 60° COPPER ELBOWS (3) COPPER STAINLESS STEEL NPT DRAIN PORT SUPPORT CLIP (Coupling and Plug) (See Detail) Pipe Plug Size Size None Drain Plugs are often removed to allow attachment of 11/4" - 11/2" 1/4" drain hose or steam trap for blow down or drainage. 2" - 4"

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 load to preparative failure, of our reducts Esilves to describe the side our 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.



STAINLESS STEEL SUPPORT CLIP SUPPORT CLIP Pipe Size Hole Diameter Thickness (in) (mm) (in) (mm) (in) (mm) 1/2 3/4 20 1/2 13 1/8 1/2 13 1/8 3 3 11/4 32 1/2 13 1/8 11/2 40 1/2 1/8 3 5/8 16 1/8 21/2 65 3 5/8 1/8 16 3/4

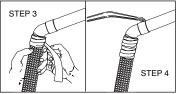
RATED PRESSURES @ **ELEVATED TEMPERATURES (psi)** (kg/cm²)

Hose		150°F		300°F		400°F	
Size		66°C		149°C		204°C	
(in) (mm)		Factor 0.92		Factor 0.83		Factor 0.78	
1/2	15	460		415	29	390	27
3/4	20	432		390	27	367	25
1	25	414	25	373	26	351	24
11/4	32	368		332	23	312	22
11/2	40	308		278	19	261	18
2	50	216	15	195	13	183	13
21/2	65	212	15	191	13	179	12
3	80	207	14	187	12	175	12
4	100	202	14	183	12	172	12

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.



RATED MOVEMENTS

±4"(100mm) All Directional Seismic Movement ±6"(150mm) Guided Thermal Movement Only

VCPSB DIMENSIONS AND PRESSURE RATINGS (American Units)

Туре	Tubing Size & End to End (in)	Live Length (in)	Corru- gations per foot	A (in)	B (in)	C (in)	Rated Pressure @70°F (psi)
VCPSB	1/2 x 211/2	14	73	15	157/8	163/8	500
VCPSB	3/4 x 215/8	15	67	15 ³ /4	16 ¹ /2	17	470
VCPSB	1 x 24 ³ /8	16	58	17	177/8	18 ³ /8	450
VCPSB	11/4 x 26 ³ /4	17	55	183/8	191/8	19 ⁵ /8	400
VCPSB	11/2 x 30 ¹ /8	19	53	205/8	213/8	21 ⁷ /8	335
VCPSB	2x343/8	20	51	221/2	231/2	241/8	235
VCPSB	21/2x40	22	34	257/8	263/4	273/8	230
VCPSB	3x45	24	30	285/8	297/8	303/4	225
VCPSB	4x531/8	26	28	323/8	335/8	341/2	220

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

VCPSB DIMENSIONS AND PRESSURE RATINGS (Metric Units)

Type	ubing Size & End to End (<i>mm</i>)	Live Length (<i>mm</i>)	Corru- gations per meter	A (mm)	B (<i>mm</i>)	C (<i>mm</i>)	Rated Pressure @ 21°C (kg/cm²)
VCPSB	15 x 546	356	240	381	403	416	34
VCPSB	20 x 549	381	220	400	419	432	32
VCPSB	25 x 594	406	190	432	454	468	31
VCPSB	32 x 679	432	180	467	486	498	28
VCPSB	40 x 765	483	174	524	543	556	23
VCPSB	50x873	508	167	572	597	613	16
VCPSB	65x1016	559	112	657	679	695	16
VCPSB	80x1143	610	98	727	759	781	15
VCPSB	100x1349	660	92	822	854	876	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 211/2" (15 x 546mm) fits over 1/2" (15mm) tubing

QTY	SIZE	TAG		QTY	SIZE		TAG		
Certifica	Certification Form S-513 05/2019 DWN CHKD DATE DWG No.								