



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

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JOB NAME \_\_\_\_\_

CUSTOMER \_\_\_\_\_

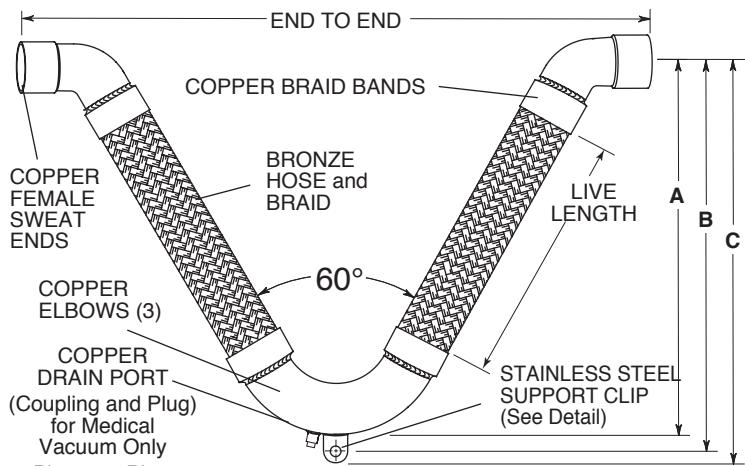
CUSTOMER P.O. \_\_\_\_\_

MASON M. \_\_\_\_\_

DWG No. \_\_\_\_\_

**VCPSBMG**

MEDICAL GAS RATED  
 BRONZE BRAIDED  
 60Vee HOSE with  
 COPPER FEMALE  
 SWEAT ENDS

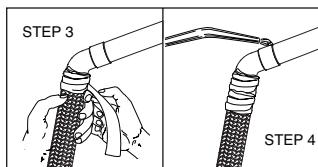


| Pipe Size      | Plug Size |
|----------------|-----------|
| 1/2" - 1"      | None      |
| 1 1/4" - 11/2" | 1/4"      |
| 2" - 3"        | 1/2"      |

Drain Plugs are often removed to allow attachment of drain hose for blow down or drainage.

**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" (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 braze.
5. Use caution with brazing rod or other higher temperature techniques. Overheating will cause leaks.
6. Remove wet cloth immediately after installation.

**RATED MOVEMENTS**

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

**VCPSBMG DIMENSIONS AND PRESSURE RATINGS (American Units)**

| Tubing Size & End to End (in) | Live Length (in) | Corrugations per foot | A (in) | B (in) | C (in) | Rated Pressure @70°F (psi) |
|-------------------------------|------------------|-----------------------|--------|--------|--------|----------------------------|
| 1/2x21 1/2                    | 14               | 73                    | 15     | 153/4  | 161/4  | 500                        |
| 3/4x21 1/8                    | 15               | 67                    | 153/4  | 161/2  | 17     | 470                        |
| 1x24 3/8                      | 16               | 58                    | 17     | 173/4  | 181/4  | 450                        |
| 1 1/4x26 3/4                  | 17               | 55                    | 183/8  | 191/8  | 195/8  | 400                        |
| 1 1/2x30 1/8                  | 19               | 53                    | 205/8  | 213/8  | 217/8  | 335                        |
| 2x34 3/8                      | 20               | 51                    | 221/2  | 231/2  | 241/4  | 500                        |
| 2 1/2x40                      | 22               | 34                    | 257/8  | 267/8  | 275/8  | 435                        |
| 3x45                          | 24               | 30                    | 285/8  | 297/8  | 307/8  | 322                        |

Female end fits over copper tubing, e.g. 1/2 x 21 1/2 (15 x 546mm) fits over 1/2" (15mm) tubing.

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

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

**VCPSBMG DIMENSIONS AND PRESSURE RATINGS (Metric Units)**

| Tubing Size & End to End (mm) | Live Length (mm) | Corrugations per meter | A (mm) | B (mm) | C (mm) | Rated Pressure @21°C (kg/cm²) |
|-------------------------------|------------------|------------------------|--------|--------|--------|-------------------------------|
| 15x546                        | 356              | 240                    | 381    | 400    | 413    | 35                            |
| 20x549                        | 381              | 220                    | 400    | 419    | 432    | 32                            |
| 25x594                        | 406              | 190                    | 432    | 451    | 464    | 31                            |
| 32x679                        | 432              | 180                    | 467    | 486    | 498    | 28                            |
| 40x765                        | 483              | 174                    | 524    | 543    | 556    | 23                            |
| 50x873                        | 508              | 167                    | 572    | 597    | 616    | 35                            |
| 65x1016                       | 559              | 112                    | 657    | 683    | 702    | 31                            |
| 80x1143                       | 610              | 98                     | 727    | 759    | 784    | 23                            |

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