



MASON INDUSTRIES, Inc.

MERCER RUBBER Co.

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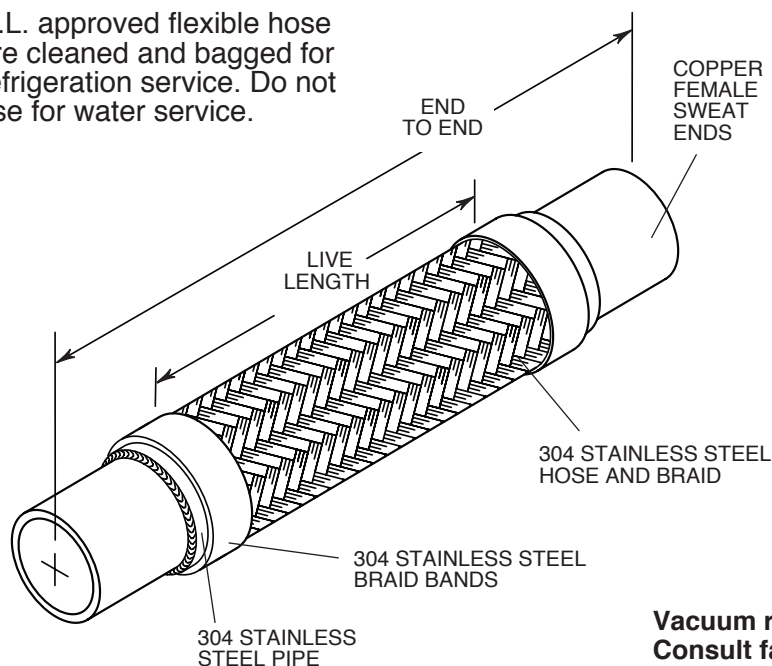


JOB NAME \_\_\_\_\_  
CUSTOMER \_\_\_\_\_  
CUSTOMER P.O. \_\_\_\_\_  
MASON M. \_\_\_\_\_  
DWG No. \_\_\_\_\_

**ULCPS**

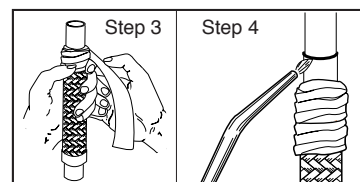
SS Braided Hose with  
Copper Female  
Sweat Ends  
U.L. Approved for  
Refrigerant Service

U.L. approved flexible hose  
are cleaned and bagged for  
refrigeration service. Do not  
use for water service.



#### INSTALLATION:

1. Thoroughly clean male and female ends.
2. Wrap base of copper fitting on connector and 2" (50mm) of the braid with a wet cloth to prevent overheating during brazing.
3. 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 brazing filler material.
4. Use caution with brazing rod or other higher temperature techniques. Overheating will cause leaks.
5. Remove wet cloth.



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

#### ULCPS DIMENSIONS AND PRESSURE RATINGS (American Units)

| Stamped Code | Size & End to End (in) | Fits Over Tubing Size | Tubing OD (in) | Live Length (in) | Maximum Permanent Lateral Offset (in) | Rated Pressure @ 70°F (psi) |
|--------------|------------------------|-----------------------|----------------|------------------|---------------------------------------|-----------------------------|
| NF1          | 1/4 X 8 1/2            | 1/4                   | 3/8            | 6                | 1/8                                   | 650                         |
| NF2          | 3/8 X 9                | 3/8                   | 1/2            | 6 1/4            | 1/8                                   | 650                         |
| NF3          | 1/2 X 9 3/4            | 1/2                   | 5/8            | 6 5/8            | 1/8                                   | 650                         |
| NF4          | 5/8 X 10 1/2           | 5/8                   | 3/4            | 6 3/4            | 1/8                                   | 650                         |
| NF5          | 3/4 X 12               | 3/4                   | 7/8            | 7 1/2            | 1/8                                   | 650                         |
| NF6          | 1 X 13                 | 1                     | 1 1/8          | 7 7/8            | 1/8                                   | 600                         |
| NF7          | 1 1/4 X 15 1/2         | 1 1/4                 | 1 3/8          | 9 3/4            | 1/8                                   | 550                         |
| NF8          | 1 1/2 X 17             | 1 1/2                 | 1 5/8          | 10 1/2           | 1/8                                   | 510                         |
| NF9          | 2 X 20 1/2             | 2                     | 2 1/8          | 13 1/4           | 1/8                                   | 400                         |
| NF10         | 2 1/2 X 24 1/4         | 2 1/2                 | 2 5/8          | 15 1/2           | 1/8                                   | 350                         |
| NF11         | 3 X 27                 | 3                     | 3 1/8          | 17               | 1/8                                   | 320                         |
| NF12         | 4 X 33                 | 4                     | 4 1/8          | 21               | 1/8                                   | 190                         |

#### ULCPS DIMENSIONS AND PRESSURE RATINGS (Metric Units)

| Stamped Code | Size & End to End (mm) | Fits Over Tubing Size | Tubing OD (mm) | Live Length (mm) | Maximum Permanent Lateral Offset (mm) | Rated Pressure @ 21°C <sup>1</sup> (kg/cm <sup>2</sup> ) |
|--------------|------------------------|-----------------------|----------------|------------------|---------------------------------------|----------------------------------------------------------|
| NF1          | 6 X 216                | 6                     | 10             | 152              | 3                                     | 45                                                       |
| NF2          | 10 X 229               | 10                    | 15             | 159              | 3                                     | 45                                                       |
| NF3          | 15 X 248               | 15                    | 17             | 168              | 3                                     | 45                                                       |
| NF4          | 17 X 267               | 17                    | 19             | 171              | 3                                     | 45                                                       |
| NF5          | 20 X 305               | 20                    | 22             | 191              | 3                                     | 45                                                       |
| NF6          | 25 X 330               | 25                    | 28             | 200              | 3                                     | 41                                                       |
| NF7          | 32 X 394               | 32                    | 35             | 248              | 3                                     | 38                                                       |
| NF8          | 40 X 432               | 40                    | 41             | 267              | 3                                     | 35                                                       |
| NF9          | 50 X 521               | 50                    | 54             | 337              | 3                                     | 28                                                       |
| NF10         | 65 X 616               | 65                    | 68             | 394              | 3                                     | 24                                                       |
| NF11         | 80 X 686               | 80                    | 78             | 432              | 3                                     | 22                                                       |
| NF12         | 100 X 838              | 100                   | 105            | 533              | 3                                     | 13                                                       |

End to End Tolerance: minus 1% plus 3%. Minimum Burst is four times the Rated Pressure. Safety factor of 5.  
Lateral Offset one side of centerline and normal machinery vibration. If intermittent in both directions, reduce by 50%.  
These meet or exceed the higher pressure requirements of R410A, R717 (NH<sub>3</sub>) and R744 (CO<sub>2</sub>).

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