



**Series B  
Medical Gas Service  
Rough-in Assembly  
Console Outlets**

Installation Instructions

Part Numbers:  
233010-00 through 233024-00

**IMPORTANT:**

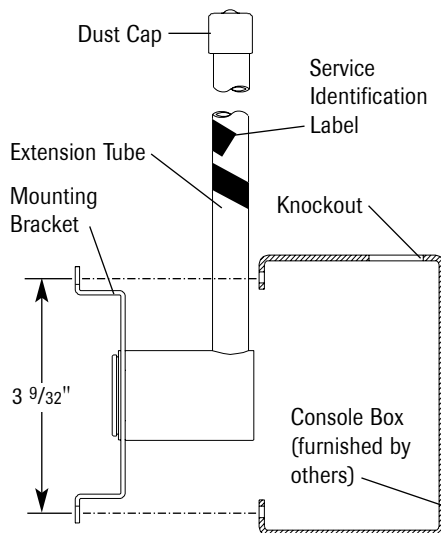
Outlet rough-in assemblies should be installed in accordance with applicable standards (e.g., NFPA 99 or CAN/CSA-Z305.1). Outlet rough-in assemblies are cleaned for oxygen service. USE NO OIL.

**Introduction**

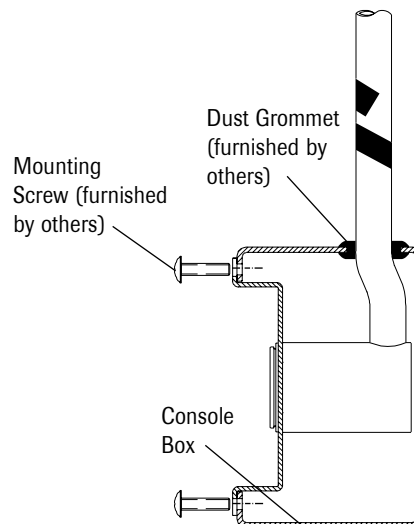
Outlet rough-in assemblies are designed to fit a standard NEMA electrical tile box, nominally 2" wide x 3 3/4" high x 2 1/2" deep (or a space-equivalent console rough-in box). Bracket mounting holes are spaced 3 9/32" apart. Provision for installation in the console box is the responsibility of the console manufacturer.

**Outlet Rough-in Assembly Installation**

1. Determine the location of the outlet rough-in assembly in the console box. Each assembly is labeled for the specific service on the mounting bracket and on the extension tube. The mounting bracket is marked TOP to aid in proper orientation and the copper extension tube can be rotated 360 degrees for connection to the piping system (Figure 1).
2. Remove the knockout in the console box to the largest diameter possible (Figure 1).
3. Insert the extension tube through the knockout hole. The tube may be bent slightly to allow for proper alignment of the mounting bracket with the console box mounting holes (Figure 2).



**Figure 1**



**Figure 2**

Part No. 847576-00 Rev. F

4. Secure the bracket to the console box using screws appropriate for the box type. The mounting bracket may be installed on the outside of the box flange or the inside depending on the console type (Figure 2).
5. Connect the extension tube to the piping system and verify that the piping is for the same service as labeled on the extension tube and mounting bracket.
6. All joints must be brazed per the applicable standards (e.g., NFPA 99 or CAN/CSA-Z305.1). DO NOT USE SOFT SOLDER.

**CAUTION:**  
Conduct heat away from the rough-in assembly during brazing to avoid damaging the seals.

**NOTE:**  
When making system tees (such as back to back installation between adjacent rooms) always tie in the larger piping and then reduce to connect the extension tube (Figure 3).

**CAUTION:**  
When cutting copper tubing, remove all burrs to prevent loose metal chips from falling into the rough-in assembly.

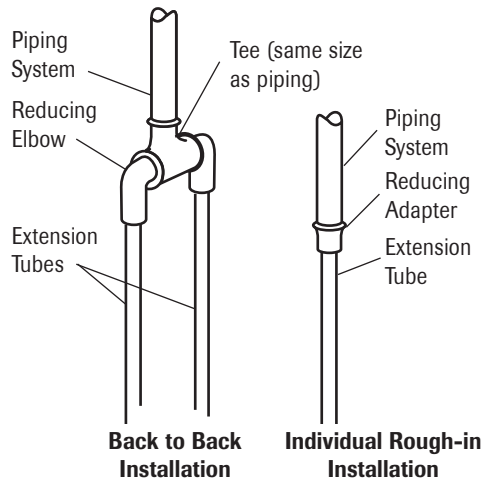


Figure 3

### Performance Test

Perform standing pressure and cross-connection tests per applicable standards. Inspect all joints for leaks.

**CAUTION:**  
Outlet rough-in assemblies are factory cleaned, tested and labeled for the indicated service. Latch-valve assemblies (to be installed after the walls are finished) are service indexed to the piping system at the rough-in assembly and cannot be changed. It is the installer's responsibility to verify system integrity per all applicable standards.

