DiamondCare™ Medical Gas Wall Outlet Rough-in Assembly

Installation Instructions

Tools required: Pop-rivet gun/dry wall gun Hex nut driver/slotted driver

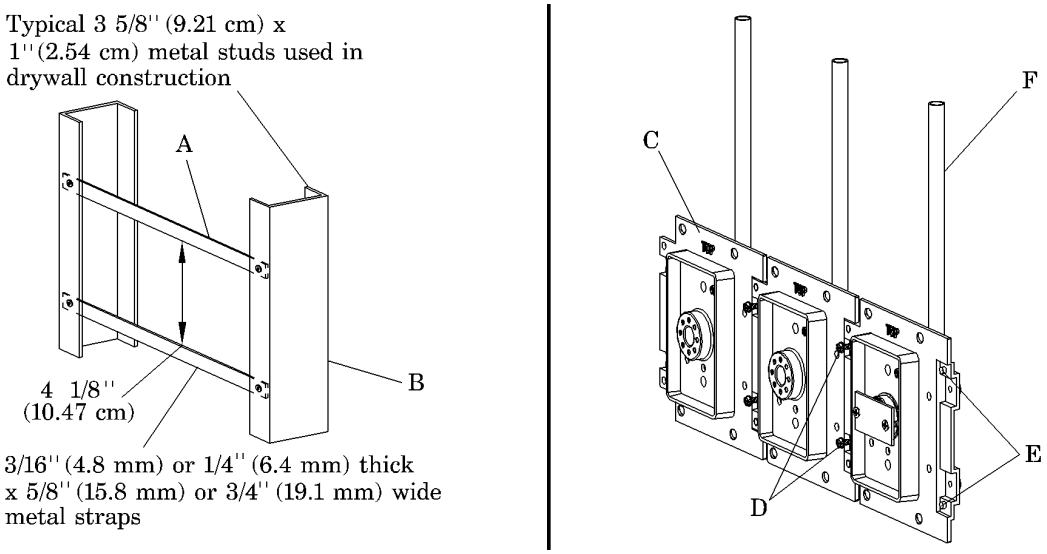
All DiamondCare™ outlet assemblies are shipped pre-cleaned for oxygen service and are ready for installation. During the installation process, care should be exercised to maintain the cleanliness of the DiamondCare™ outlet assemblies.

NOTE:
Install these outlets in accordance with all procedures and tests as required in National Fire Protection Association (NFPA) 99 Standard for Health Care Facilities or CSA Z305.1.

NOTE:
Consult the mechanical drawings for the proper location and order of the medical gas outlets. Consult the American Disabilities Act (ADA) and state and local code requirements for proper outlet placement above the finished floor.

1) Using pop-rivets or dry wall screws, mount two metal straps (A) horizontally between wall studs (B) where you install the gas outlet gang (see figure 1 on page 1).
Leave a vertical gap of 4 1/8" (10.47 cm) between the metal straps.

Figure 1. Metal Strap Installation and Outlet Ganging

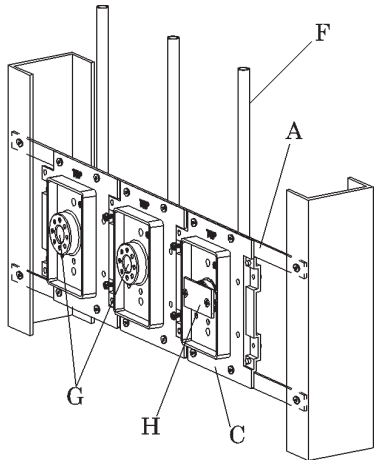


2) Gang the appropriate rough-in assemblies together by aligning one rough-in assembly (C) with the slots of the next rough-in assembly (C). Ensure that the alignment pins (E) are in the mating holes and that the copper inlet tubes (F) are in the proper orientation for system connection.

3) Using a slotted or hex nut driver, tighten the ganging screws (D) of each rough-in assembly (C).

4) Using pop-rivets or dry wall screws, mount the gang of attached rough-in assemblies (C) to the two horizontal metal straps (A) (see figure 2 on page 2).

Figure 2. Rough-in Assembly Installation



5) Align and dry fit each pressurized gas or vacuum supply line to its corresponding 1/2" (12.7 mm) OD DiamondCare™ rough-in copper inlet tube (F), using a recommended 1/2" x 5/8" (12.7 mm x 15.8 mm) OD fitting.

CAUTION:
Do not shorten the rough-in copper inlet tube. Possible equipment damage could occur.

NOTE:
Prior to brazing, ensure that the NFPA 99-mandated blow down of supply lines (by means of oil-free and dry nitrogen), and cross-connect testing have been performed.

CAUTION:
Protect each outlet rough-in from overheating during the brazing process by wrapping a wet rag around the rough-in copper inlet tube. Failure to do so could result in equipment damage.

6) Wrap a wet rag around the rough-in copper inlet tube and then braze the connection between each pressure gas/vacuum supply line and rough-in copper inlet tube (F).

7) During brazing, purge the secondary check of pressure rough-ins, as necessary, by depressing the center portion of the plastic dust shield (G). For brazing of vacuum/Waste Anesthetic Gas Disposal (WAGD) inlets, loosen the pre-installed pressure test cap (H) to permit rough-in purging. Retighten after brazing and before initial pressure test.

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