

CASE STUDY MediTrac[®] for a Flameless Addition of Nitrous Oxide Outlet in the OR

- Saves Time
- Saves Money
- Increases Installation
 Options

Product: MediTrac® Corrugated 1/2" Flexible Medical Tubing

Location: Advocate Good Samaritan Hospital, Downers Grove, Illinois.

MediTrac° by OmegaFlex° continues its introduction into the market by providing innovation from end to end with another installation.

Project Overview

Advocate Good Samaritan Hospital needed to add versatility in one of their operating rooms. To accomplish this, they needed to add an additional Nitrous Oxide Outlet into a surgical boom. Medical Technology Associates and JPI MedGas partnered to provide a flameless addition of the outlet.

Installation Overview

The MediTrac[®] straight fitting was pre-installed to the medical gas boom connection off-site and then bagged and sealed until ready for installation. On the day of the install, the team from JPI and MTA arrived on-site with the prefabricated outlet and the MediTrac[®] tubing. The

prefabricated connection was installed into the boom connection plate by JPI while the medical gas hose was routed through the surgical boom by MTA. JPI routed the MediTrac[®] tube from the boom connection to the tie in point on the opposite side of the room. Because of the flexibility of the MediTrac[®] tube and not having to braze or install fittings above the ceiling the JPI team was able to route all tubing using only the pre-existing ceiling access covers, eliminating the need to remove and replace large sections of the hard pan ceiling. The final connections and tie-in to the existing piping was made using flameless axially swaged fittings at the access panel location. All the work was completed with no hot work on a single afternoon following the completion of the day's cases. Final cleaning was completed that evening and cases resumed the next morning.

Conclusion

Good Samaritan had been looking to add the additional outlets for some time. Due to the difficult working locations above the operating room ceilings, they had delayed the project numerous times. The elevated risk of hot work along with the need to close the operating room for multiple days for construction would have made the project extremely cost prohibitive. Using the MediTrac[®] system for a flameless installation and no additional construction work or down time in the operating rooms made the project possible.



Advocate Good Samaritan Hospital,

Downers Grove, IL

MediTrac[®] straight fitting installed into axially swaged fitting.

(continued



Omega Flex, Inc. • 451 Creamery Way • Exton, PA 19341 1-800-671-8622 ISO 9001 Registered Company MTUS-653 03/22 © Omega Flex, Inc. 2022



CASE STUDY MediTrac[®] for a Flameless Addition of Nitrous Oxide Outlet in the OR

(continued from front)



MediTrac[®] installed above a finished operating room ceiling.

Summary of MediTrac• materials: 40' 1/2" MediTrac[®] tube

Qty.(2) 1/2" MediTrac[®] Straight Fittings Axially swaged fittings for tie-in

Summary of Cleaned and Capped Copper materials saved per location:

40' 1/2" Type L C&C Copper

Qty.(10) 1/2" Copper 90's

Qty.(4) 1/2" Copper Couplings

Miscellaneous copper fittings and tees for tie-in

Various consumable materials including but not limited to: Nitrogen purge gas, brazing rods, fire protection materials, fuel and prep materials.



MediTrac[®] installed above a finished operating room ceiling.

Labor Man Hours estimated for Cleaned and Capped Copper

JPI MedGas estimated over 18-man hours to complete the installation with traditional materials because of the difficult working environment, required fire watch and site availability.

Summary of MediTrac[®] hours:

JPIMedGas completed the installation of the MediTrac[®]system in a total of 3-man hours, including the pre-fabrication done off-site.

Overall Efficiency Summary: The use of MediTrac[®] allowed the project to be completed in one afternoon rather than multiple days. The reduction in installation time was 85% compared to using traditional cleaned and capped copper allowing the contractor a more efficient use of time and allowing the facility to return to normal operation with no closures or down time. Additionally, MediTrac[®] allowed for zero additional construction and repair in the operating room. The ability to provide a flameless installation in a single afternoon with no additional construction or operating room closures made the project feasible for the hospital.

OmegaFlex[®]

meditrac.us