

Designing an NFPA- 51 Gas Delivery Solution



CONCOA NFPA-51 gas delivery systems are designed for both safety and performance. Our philosophy begins with utilizing tip-mix gas apparatus in the hand of the user. When pressures are adjusted properly at the torch CONCOA'S tip-mix design delivers the industry's most stable and robust operation.

A NFPA-51 compliant acetylene-oxygen system will then locate a non-return valve, an isolation valve and a regulator at the drop station. Depending on preference the facility may locate a flashback arrestor at the station drop, each branch line or on the main house line. The system will also have a relief valve on the main line to protect the pipe from over pressurization.

The 632 series pressure differential manifold delivers the industry's highest acetylene flow rate while maintaining stable pressure control. The 632 will incorporate a master shutoff valve and non-return flash arrestors on each cylinder hose. Oxygen can be delivered from high-pressure or liquid cylinders cost effectively with the 640 series IntelliSwitch. Last but not least, every company should have an active preventative maintenance program with annual inspections of each component of the NFPA-51 system.

