RETRO SYSTEMS

OXYFUEL GAS MANIFOLDS

Retro Systems offers a Basic Solenoid Package, Standard Duty Hi/Low Gas Manifold and High Capacity Hi/Low Gas Manifold. Each manifold is designed for a different segment of the metal cutting industry.

Each package includes an Operator Panel which includes a Plasma/Oxyfuel process selector switch. Once selected, the oxy-fuel cutting process may be controlled automatically by the CNC control or manually by the switches on the panel. UP/Down switches are provided to control torch to plate height. Switches are provided to activate auto torch ignition when required.

Basic Solenoid Package

The basic solenoid package is the least expensive offering is intended for customers with entry level cutting machine models or who do not have high expectations of the oxyfuel process.

Package includes:

- Operator panel
- Required wiring
- Solenoid valve for Preheat Oxygen
- Solenoid valve for Preheat Fuel
- Solenoid valve for Cutting Oxygen

Gas pressures are regulated with customer supplied regulators attached to the sources of oxygen and fuel.

Standard Duty Hi/Low Gas Manifold

The Standard H/Low Gas Manifold is designed for customers who have high expectations of the oxyfuel process. This package delivers rapid pierce times, excellent cut face surface, reduced spatter during piercing, elimination of top edge rounding and optimized cutting speeds. This package delivers flows required for cutting metal as thick as 12” (300mm) with one torch or 2” (50mm) with four torches

Package includes:

- Operator panel
- Metal enclosure and required wiring
- Low preheat oxygen regulator
- Low preheat fuel regulator
- Cutting oxygen regulator
- Ease on pierce rate control

Low preheat fuel, low preheat oxygen and cutting oxygen pressures are set at the gas manifold. High preheat fuel and oxygen pressures are set at the cylinder regulators. The rate that cutting oxygen pressure increases during the pierce is set by the Pierce Rate Control knob.

High Capacity Hi/Low Gas Manifold

The **High Capacity Hi/Low Preheat Oxy-fuel Cutting Manifold** is designed for the most demanding oxy-fuel cutting applications using multiple torches. This package delivers rapid pierce times, excellent cut face surface, reduced spatter during piercing, elimination of top edge rounding and optimized cutting speeds. This package delivers very high gas flows required for cutting metal as thick as 12” (300mm) with one torch or 2” (50mm) with up to eight torches.

Package includes:

- Operator panel
- Metal enclosure and required wiring
- Low preheat oxygen regulator
- Low preheat fuel regulator
- High preheat oxygen regulator
- High preheat fuel regulator
- Cutting oxygen regulator
- Ease on pierce rate control

Low preheat fuel, low preheat oxygen, high preheat fuel, high preheat oxygen and cutting oxygen pressures are set at the gas manifold. The rate that cutting oxygen pressure increases during the pierce is set by the Pierce Rate Control knob.