



## PROPORTIONAL GAS MIXERS TYPICAL APPLICATIONS

- Weld and purge with a variety of gases
- Accurate TIG and MIG welding
- Mixed gases for the Foundry industry
- Accurate mixing of gases for the aerospace industry
- Laboratory applications
- Gas mixtures for plasma arc cutting machines
- Controlling the atmosphere in heat treat ovens
- Mixtures are maintained with any selection
- Mixture accuracy is unaffected when inlet pressure remains within specified limits
- Reduced set-up time eliminates the need for premixed gases
- Easy operation, training and supervision

### Eliminates need for premixed gases

Various welding jobs require different mixes for the best performance. On site mixing of gases with Smith's proportional gas mixers eliminates high or low percentages that can be found in high cost premixed cylinder gases. Individual gases can be mixed for specific welding or other industrial requirements resulting in improved performance. Controlling the mixture of gases will result in lower cost and better controlled welds.

### Reduces Set-up Time

No need to change cylinders, regulators, flowmeters or hoses when changing from one range of mixed gas to another. Just turn the dial for whatever mixture you need. No critical adjustment of flowmeters or complex calculations needed to achieve proper mixture rates.

### Always Accurate - No Gas Separation!

Premixed gases may separate or stratify into the individual gases within the cylinder. Smith's proportional gas mixer eliminates gas separation or stratification to always give you an accurate mixture.

### Easy Operation, Training and Supervision in Welding Applications

Whether you are using a single welder or a manifold system supplying up to 10 welders, operation is simple and easy to use. Ideal for training all personnel regarding shielded gas mixtures because they can see the effect of various gas mixtures on weld appearance, quality and penetration. Supervisors can easily note at a glance if the operator is using specified gas mixture.

### Three Series of Mixers Available:

#### 2-Gas Mixers in Standard and High Capacity Models and 3-Gas Standard Models

The standard two-gas series provides flows up to 180 SCFH and is suitable for most applications. The high capacity two-gas series provides flows up to 700 SCFH and is designed primarily for large manifold systems with station flowmeters in the welding industry (supplies up to 25 weld stations). It is ideal for other industrial applications requiring high flow rates. The standard three-gas series provides flows up to 180 SCFH and is designed for applications that require three gas mixtures.

