



BLENDERS

Deliver Accurate Turnkey Solutions

Blender

1

Supply

2

Point of
Use

3

Designing a gas blending solution with CONCOA equipment from supply to point of use guarantees precise gas blends with repeatable accuracy required for superior weld quality. With each component designed and manufactured under strict tolerances, CONCOA gas blending systems are made to ensure consistent supply and flow control at the point of use. Choosing a complete CONCOA solution with the technical support to ensure reliable performance that

exceeds customer
expectations is
as easy as 1...2...3!



655 Series Oxygen Blendmaster



650 Series
Autoblend



652 Series Blendmaster 1000

blends with flows less than 600. To calculate the total shielding gas usage simply total the number of use points, and multiply each by the desired flow rate and duty cycle. As illustrated below, the gas supply to the blender may be delivered by bulk/microbulk tanks, liquid cylinders or high pressure cylinders.

Step 2: Select the gas source system that ensures adequate flow to the blender. Choose the 6790 Series regulator for bulk or microbulk, the 642 IntelliSwitch for liquid, or the 632 for high pressure. Typically, a single liquid cylinder delivers 300-350 cfh Argon or Oxygen gas phase within the fill cycle, while a 50 or 100 lb Carbon Dioxide cylinder supplies 50-75 cfh.

Step 3: Select the best point of use equipment for the application. The gas saver regulator-flowmeter eliminates gas surge offering a cost reduction in highly repetitive tack or stitch type weldments. The 700 series flowmeter is the proper choice for cost sensitive and accurate control applications. Flow adapters offer the lowest cost point but the least accuracy.



Station Drop
Gas Saver
Regulator

632 Series
Pressure
Differential

642 Series
IntelliSwitch II

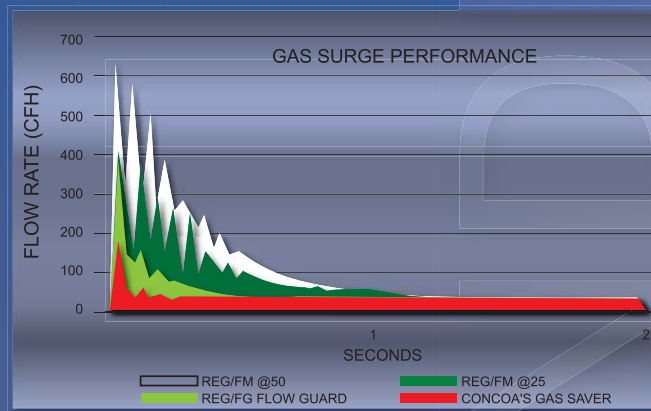
652 Series
BlendMaster

Step 3 Choose Point-of-Use Equipment

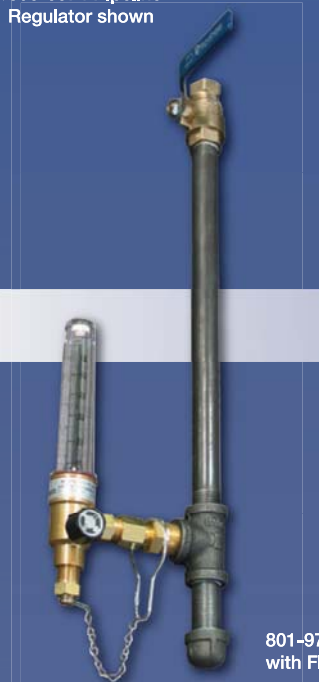
Option 1: Long Term Cost Savings

Gas Saver Regulator

CONCOA gas saver regulators reduce the shielding gas surge normally observed with pressure-compensated flowmeters. A minimum savings of 20% can be obtained in highly repetitive tack and stitch weldments. Models are available with key lockout and station drop for process integrity.



806-6574 Pipeline Regulator shown



801-9720 Station Drop with Flowmeter shown

Option 2: Precise Flow Control

Flowmeter

CONCOA station drops are available with regulator-flowmeter or just flowmeter point of use equipment. The 700 Series point of use flowmeters offer dual-scale calibration at 30 psi to ensure accurate flow. Additionally, the design incorporates a re-settable relief to provide optimum safety.

Option 3: Economical Solution

Flow Adapters

CONCOA flow adapters are designed to meter flow from a fixed pipeline pressure. Unlike the 700 Series regulator-flowmeter combination with viewable scale, the flow adapter requires a known inlet pressure to calculate flow and is subject to variations. The orifice inlet filter provides long life even in black iron pipe installations.



830-1975 Flow Adapter shown