



New Gas Filling Technology Assures Precise Gas Mixing.

Philadelphia, PA, (July 15, 1999)—BOC Gases in Chattanooga has developed a sophisticated, new software program to operate bottled gas filling stations. In a series of performance evaluations, the system was accurate to 1000 parts per million, which is plus or minus 0.01% of spec. Traditional filling methods which rely on manual control can't come close to the new system's level of gas purity and mixing precision.

Operational reliability in the new system depends on 12 CPV Air Operated FloMaster™ Shutoff Valves and one Honeywell metering valve. Rosemont pressure transducers and Omega thermocouples are used to monitor and control the filling process. An extremely high degree of accuracy is assured because the system can make minute flow adjustments instantly.

The CPV FloMaster units are rated for 6000 psi which provides a comfortable margin of security since the BOC system rarely requires a working pressure higher than 2,400 psi. Even when filling helium, BOC has not experienced leaks or other problems. The flat faced end connections of FloMaster valves are designed with CPV's O-Seal System. This enables slip-in slip-out installation or removal. Moreover, as line pressure increases, the seal actually becomes tighter.



The new precision filling station at BOC Gases, Inc. in Chattanooga uses 12 air operated CPV FloMaster valves to fill mixed gases within 0.01% of spec.

CPV has been a leading manufacturer of valves and fittings since 1915. The company's innovative designs are well suited to standard applications, as well as one-of-a-kind custom requirements. For more information or technical literature, on FloMaster and other CPV valves & fittings contact:

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Slip-in Slip-out O-SEAL Valves Hold H₂, He, and O₂ Leaktight To 6,000 psi.



These proven flat-faced O-ring sealed valves offer the leakproof integrity of heat-sealed connections plus slip-in slip-out accessibility. They also feature a unique internal soft-seat design whose reliability has been proven in hundreds of rigorous applications. O-SEAL SYSTEM valves, in tube and pipe sizes from 1/8" to 2 1/2", are ideal for containing hard-to-handle gases (even hydrogen) to 6,000 psi. What's more, the O-SEAL SYSTEM actually uses line pressure – the higher the pressure, the tighter the seal. And, O-SEAL valves have some of the highest flow characteristics of any hand-operated valves (actuators available). For leakproof containment of gases... nothing matches the reliability record of O-SEAL valves.

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Send for your FREE catalog!



Remote control to 6000 psi. New air-operated FloMaster™ shut off valves from CPV.

CPV has turned the corner on leakproof control of gases or liquids up to 6000 psi. Which means you no longer have to turn a valve handle manually to control high production operations; helium and hydrogen included.

- Proven soft seat technology provides years of bubble tight shut-offs.
- Air operated high performance actuator.
- Larger flow area increases productivity and decreases pressure drop.
- Flat faced union end connections for "slip-in, slip-out" access.
- Cartridge design for easy accessibility.

FloMaster shut off valves are available in globe or angle configurations and in pipe sizes from 1/8" to 1". Each valve is 100% pressure tested at the factory and documentation can be provided upon request. Call or write for free color catalog.

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Hard to Find Valve or Fitting Spec it Right

The CPV Mark VIII line of stainless steel valves and tube fittings match your system requirements perfectly. Shutoff or regulating valves with traditional connections, or Mark VIII O-ring union ends for easy slip-in slip-out. Plus Mark VIII fittings the way you need them – connectors, tees, elbows, crosses, etc. O.D. tube sizes to 2". For leak free reliability to 6000 psi, ask for our catalog; you'll want to keep it on file.

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Can't Shake Loose

CPV Mark VIII O-Seal tube fittings provide leak-proof reliability in thousands of demanding applications. The captive O-ring system assures a tight seal from vacuum to 6000 psi – even vibration can't shake these fittings loose. Flat faced design enables components to slip in or out without springing or cutting the line. Fittings can be brazed or welded in place. Sizes from 1/8" to 2". Send for FREE catalog.

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Shutoff, Needle and Check Valves High Pressure Performers

New Stainless steel G-Series valves from CPV will provide long term reliable service in thousands of applications. They are rated for up to 6000 psi (413 BAR) and can function from -65°F (-54°C) to 400°F (204°C), depending on seal material selected. The soft seat design (stem inserts) assures years of bubble tight shutoffs, in either gas or liquid service. Six orifice sizes; a variety of pipe or tube end connections from 1/8" to 1 1/2". Contact CPV for the new catalog.

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