



# Tescom Laboratory & Analytical Products

Specifically Designed for the Gas Process Industry



**TESCOM**

  
**EMERSON**<sup>™</sup>  
Process Management

**Tescom continues to develop products to meet the increasing demands of the world's leading process companies...**

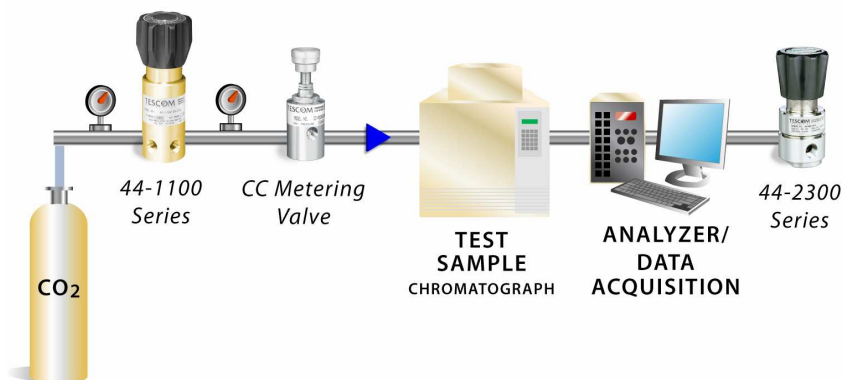


LABORATORY GAS NETWORK

# Product Update

Today's process analysers, such as gas chromatographs, spectrophotometers, combustion and liquid analysers provide the key metrics for monitoring product quality, throughput, and environmental concerns. Samples must be representative of the process and be as clean as possible for accurate, real-time monitoring. Tescom has developed a total solutions approach to meet the growing gas analysis demands of the world's leading process companies with our products helping to enable reliable and repeatable chemical analysis in the lab. Our solutions are proven by more than 50 years experience in the industry and we are firmly established as the world leader in pressure control technology, forging close associations with customers and achieving preferred supplier status with many manufacturers. Our reputation for reliability has been established through decades of successful service in the analytical industry. Tescom has played a major role in meeting the technical challenges of the industry with our products being used extensively in instrumentation, sensor and analytical pressure control systems. Leak-tight Tescom regulators, valves and changeover panels help optimise the use of energy and raw materials, from water cycle monitoring to fuel and emissions analysis, in an environmentally friendly manner. Our products are mission critical in the measurement and control of unit operations such as reaction endpoints, batch processing, and blending operations. Whatever the strategy and configuration of the analyzer system, Tescom's pressure control products help enable reliable monitoring and consistent control.

## CO<sub>2</sub> Gas Chromatograph



## **44-2200 series gas analyzer regulator has a proven and reliable design...**



From usage on gas cylinders to gas analysers, our versatile range of instrumentation regulators have endured extensive cycle tests and includes features that make us the market leader. Our 44-2200 series regulator is economically priced and is designed to reduce contamination and provide highly accurate regulation of any corrosive, non-corrosive or toxic gas. Available with a range of outlet pressures, flow rates, construction materials and accessory options. Also available with a 300 barg rated inlet option for today's higher pressure cylinders.

## **44-4800 series heated regulator prevents 'freezing' problems with high enthalpy gases...**

Tescom's electrical or steam heated 44-4800 series regulator is certified to ATEX 100 and helps to maintain saturated gases in a vaporised state due to its unique heating design. The 100W heater cartridges (or steam tubes) are inserted in spiral sheaths which agitate the media to help with the heat transfer and analysis process. Multi-turn adjustment allows high resolution temperature control and maximises heat transfer while reducing energy consumption and expense.

Typical Applications Include:

- Natural Gas sample systems
- Oxygen sample systems
- Moisture sample systems



## **Tescom's newly released MiniLabo-S series....**

### **Modular Compact Cost-effective Point-of-Use Design**

Tescom MiniLabo point-of-use regulators have an excellent reputation in the laboratory market as both technically advanced and highly reliable gas control components. In recent years, market demands on ease of operation, pressure control precision and ergonomics have risen. That is why Tescom has now technically and aesthetically refined our range of laboratory regulators.



The outcome: the new laboratory platform 'MiniLabo-S'

Key features:

- regulator body available in brass or stainless steel
- metal diaphragm design (leak tight)
- wall mounting, panel mounting & integrated versions
- variable inlet & outlet adaptors
- shut-off & metering valve integrated as standard
- quick & easy mounting

**Product Update**

## All-in-One Concept: Pressure Regulating - Flow Metering - Gas Shut-Off

The MiniLabo-S integrates all regulator functions in a compact and ergonomic design offering easy and intuitive single-hand operation. A distinctive gas type labelling and colour-coded on/off indication minimises operating errors and improves laboratory safety.

## Modular Product Platform: Flexibility & Cost Effectiveness

The MiniLabo-S comes in three basic body versions with a range of well-aligned accessories, allowing a large variety of mounting configurations. The integrated shut-off and metering valve (supplied as standard) accommodates any future change in application and protects downstream laboratory equipment. Reduced piece parts also simplifies inventory and cuts down life cycle costs.

## Changeover Systems

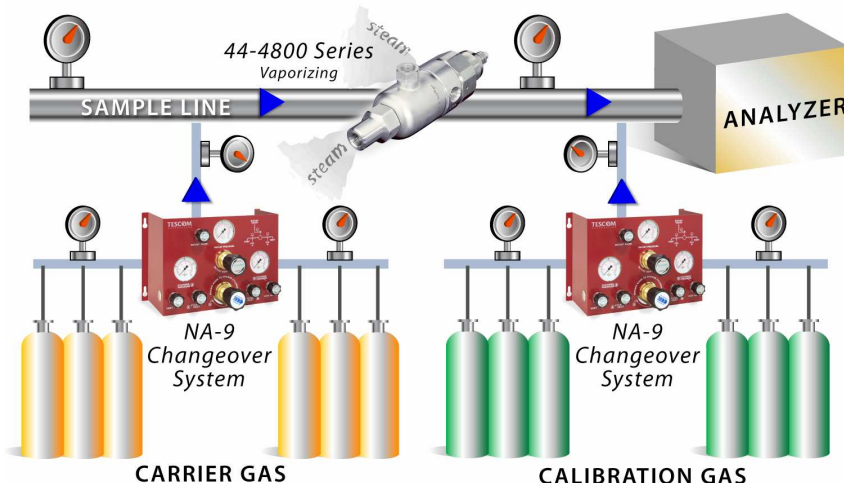
Tescom changeover systems provide a continuous gas supply from bottle storage systems. Gas is supplied from one source whilst a second is kept on standby. When the primary source is depleted the system can change to the secondary source automatically or prompt an operator to make this change. Replenishment of the primary source can then be carried out without interference of the supply.

We offer a wide range of standard and bespoke changeover panels. Standard offerings include brass and stainless steel versions with manual or automatic changeover functions. Other options include standard pressure gauges, contact gauges for local and remote empty cylinder or overpressure alarm signals, and pressure transducers for connection to remote monitoring systems. ATEX approved versions are also available for use in hazardous areas as are additional items including check valves and flash-back arrestors. High flow, heated and ultra-clean versions with high-purity connections are available on request. All Tescom changeover systems offer minimised leak paths, purgeability and ease of integration and connection into existing or new systems.

Features:

- Less connections and minimized internal volume due to the integrated design of valves/regulators
- Short purging time when changing cylinders (can be purged with process or inert gas)
- Easy and quick to maintain

## Typical Sampling System with Steam Vaporizing and Changeover Regulators



Tescom want to grow our position in the analytical market and has an excellent reputation for the quality, reliability and long service life of our products which are renowned for their robust design. The performance quality and reliability of Tescom products in addition to the local support provided by our highly qualified sales team continues to ensure that we remain the world's number one pressure control equipment manufacturer. Please feel free to contact us for further information on how our pressure control solutions can help to reduce downtime and improve the efficiency of your gas monitoring systems.