Pressure Control Solutions for Laboratory and R&D
You get a built-in technical advisor

High purity and corrosive gases are expensive, difficult to handle, and safety is always a concern. And getting accurate pressure control is of the utmost importance in order to avoid issues later on - some of which could even be catastrophic.

We are not just another regulator manufacturer. We stand behind a long history of conforming to strict industry standards, including first-in-class safety and quality programs. We have designed our world-class high performing products and developed a technical support group to go beyond the expected.

Whether your regulator requirements are part of a larger system or a single-point solution, we use our extensive technical know-how of your application to produce customized solutions.

**TESCOM™ Solution Packages**
- World-class, high performing
- Oxygen service certification
- Custom product configurations
- Fail-safe features
- Accessories
- After-sales support

**Specialized Technologies**
- Non-venting designs
- Purging ability for keeping process media clean and dry
- Multiple porting options
- Panel assembly for central gas supply systems
- Integrated custom systems
- Automated pressure control management

Just as you are paving the way to new discoveries and advancing technologies, you should expect the same from a partnership with a trusted pressure control advisor.

*We'll be with you every step of the way.*
### TESCOM solutions

Here are popular TESCOM models designed for use in the demanding laboratory and R&D environment. We also custom engineer to your specific needs.

#### Point of Use (POU)
Pressure regulation that is controlled from another location from where the bulk gas is stored. Often implemented per strict industry safety requirements. A wide range of gases are used such as Nitrogen, Hydrogen, Oxygen, CDA, burnable gases and many more.

<table>
<thead>
<tr>
<th>TESCOM SERIES NAME</th>
<th>FEATURES/APPLICATIONS</th>
<th>INLET PRESSURE RANGES (MAX)</th>
<th>OUTLET PRESSURE RANGES (MAX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>44-1100 Pressure Reducing Regulator</td>
<td>For inert and non-corrosive cylinder gases (Nitrogen, City &amp; Argon)</td>
<td>10,000 psig</td>
<td>0-240 psig</td>
</tr>
<tr>
<td>44-2200 Pressure Reducing Regulator</td>
<td>Compact and lightweight single-stage design</td>
<td>400 or 3500 psig</td>
<td>0-240 psig</td>
</tr>
<tr>
<td>MiniLabo 2 Pressure Reducing Regulator</td>
<td>Long-standing field-proven design - compact and ergonomic</td>
<td>580 psig</td>
<td>22, 55, 145 psig</td>
</tr>
<tr>
<td>SG1, SG2, SG3 Pressure Reducing Regulator</td>
<td>Economical yet high performing line of single and dual-stage regulators</td>
<td>4500 psig</td>
<td>207 bar</td>
</tr>
</tbody>
</table>

#### Cylinder Pressure Control
Pressure regulation that requires robust handling of corrosive and non-corrosive gases.

<table>
<thead>
<tr>
<th>TESCOM SERIES NAME</th>
<th>FEATURES/APPLICATIONS</th>
<th>INLET PRESSURE RANGES (MAX)</th>
<th>OUTLET PRESSURE RANGES (MAX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEKA 1 &amp; 2 Pressure Reducing Regulator</td>
<td>Reduces high pressure gases in storage cylinders to a low operating pressure</td>
<td>2900 or 4350 psig</td>
<td>0-200, 0-300, 0-500, 0-750, 0-1000, 0-1500 psig</td>
</tr>
<tr>
<td>WEKA-SP Pressure Reducing Regulator</td>
<td>Positive seal - tied diaphragm for extended regulator cycle life in corrosive gas applications</td>
<td>2900 psig</td>
<td>0-13.8, 0-20.7, 0-34.5 bar</td>
</tr>
</tbody>
</table>

#### Carrier and Calibration Gases
Pressure control designed for common gases like Nitrogen, Hydrogen and Helium.

<table>
<thead>
<tr>
<th>TESCOM SERIES NAME</th>
<th>FEATURES/APPLICATIONS</th>
<th>INLET PRESSURE RANGES (MAX)</th>
<th>OUTLET PRESSURE RANGES (MAX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>44-3400 Pressure Reducing Regulator</td>
<td>Dual-stage design eliminates supply pressure effect</td>
<td>3300 psig</td>
<td>241 bar</td>
</tr>
<tr>
<td>Compact Panel</td>
<td>Provides continuous flow of gas to the analyzer or process</td>
<td>4350 psig</td>
<td>300 bar</td>
</tr>
<tr>
<td>NAA</td>
<td>Provides continuous flow of gas to the analyzer or process</td>
<td>3000 psig</td>
<td>207 bar</td>
</tr>
</tbody>
</table>

#### Reactor Gases
Pressure control solutions designed to handle higher pressures and temperature. For constant process pressure in devices like autoclaves, reaction vessels and furnaces. Broad range of sealing materials available (e.g. applications with super critical fluids and explosive decompression).

<table>
<thead>
<tr>
<th>TESCOM SERIES NAME</th>
<th>FEATURES/APPLICATIONS</th>
<th>INLET PRESSURE RANGES (MAX)</th>
<th>OUTLET PRESSURE RANGES (MAX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>26-2000 Pressure Reducing Regulator</td>
<td>Self-sealing - including uniquely captured venting design with segregated vent port</td>
<td>200-10,000, 50-6000</td>
<td>0.25-0.5, 0.1-1, 0.025-0.5, 25</td>
</tr>
<tr>
<td>26-1700 Back Pressure Regulator</td>
<td>Gases or liquids</td>
<td>0-1000, 0-1500 psig</td>
<td>0.0001-0.001, 0.00001-0.0001, 0.000001-0.000001 psig</td>
</tr>
</tbody>
</table>
When accuracy really counts

Remote control is vital for those applications in hazardous testing environments like burst and proof testing. For applications requiring extreme pressure control accuracy, data acquisition and/or remote pressure control, the TESCOM ER5000 Series electropneumatic controller offers a closed-loop pressure control solution that incorporates automation and delivers accurate results every time.

- Regardless of changing conditions, flow/no-flow, temperature changes, chemical reactions and other factors, the ER5000 will constantly monitor the actual pressure and maintain pressure within ± 0.1% of feedback.
- ER5050 ATEX Explosion Proof is certified to DEKRA/CENELEC and CE, ideal for use in hazardous locations.
- ER5000 is compatible with a wide range of TESCOM regulators making it suitable for many types of applications.
- Comprehensive tuning software included at no charge.

Support you can count on

Pre-and post-sale technical support, certifications and fail-safe features help ensure you are getting the right solution for your application. We also offer a wide range of accessories to complete your pressure control needs.

SAFEGUARDS

Certifications

- Dangers with Oxygen continue to be underestimated in all applications in all industries. Components and systems designed not considering the challenges of Oxygen as their controlled media can be costly, up to and including loss of life.
- TESCOM regulators which are designed for Oxygen service, meet the following stringent requirements.
  - EN ISO 2503 or EN ISO 729, ASTM G175 Phase 1
  - ASTM G175 Phase 2

Emergency/Warning Systems

- Safeguard your central supply system by installing warning systems before a catastrophic event can occur.
  - The Emergency Switch-off System acts as an electrical operated quick shut-off for main pipe systems, flow pipe systems or room pipe systems. All gas supplies will be stopped at the feeding points. A complete fail-safe warning system when used in combination with a control box and gas warning system.
  - The Gas Failure Warning System is used in combination with a cylinder station in order to avoid a complete discharge of the cylinder which may cause an interruption in the process. Includes a signal box (Series SK), pressure switches or contact gauges and electrical wiring. The warning signal is initiated by an integrated horn, lights or an additional external indicator.

Flashback Flame Arrestors

- Protect your system by preventing the entry of air or oxygen into the distribution line or cylinders. Available for H2, O2, Air and Acetylene.

See Point-of-Use Accessories in the TESCOM product catalog for more information.

ACCESSORIES / REPAIR KITS

WEGA Accessories

- Includes gauges, needle and diaphragm metering valves and repair kits specific to the WEGA product line
- Ideal for corrosive gases
- See WEGA Accessories in the TESCOM product catalog for more information.

Gauges

- Standard and specialized gauges are available for any application
- Oxygen to EN562
- Safety gauges with solenoid and inductive contact to DIN 16005

Fittings/Connections/Hoses/ Mounting Equipment

- To complete your solution, we offer a range of accessories to fit your system requirements so you don't need to search anywhere else.

The TESCOM™ brand of pressure controls are designed and manufactured in a wide range of standard and custom engineered solutions for a diverse world market. Market application know-how includes Aerospace & Defense, Alternative Fuels, Diving & Life Support, laboratory & Research, Life Sciences, Medical, Oil & Gas and Microelectronics to name just a few. Close collaboration between worldwide design and manufacturing groups ensure the usage of state-of-the-art production technologies to provide the innovation and highest quality product that TESCOM customers have come to expect.

TESCOM distributor support centers are located in most major cities worldwide. More than 100 locations provide application assistance and quality TESCOM product.

To find a distributor or sales office location near you, visit www.tescom.com and click on Where to Buy.