



from idea to implementation...



Pressure Control SYSTEMS

Manifolds • Assemblies • Test Panels
Calibration Systems • Custom Software
Electromechanical Systems



TESCOM
CORPORATION

INDUSTRIAL SYSTEMS GROUP



Tescom is an experienced provider of high quality manifolds, custom assemblies and systems for the control of **pressure** and **flow**. We can simplify your existing system or create a new one to meet your needs. Whether it's your idea or ours, we will save you **time** and **money**.

Tescom has designed and manufactured custom pressure controls and manifolds for over 40 years. Founded in 1917, our company has built its reputation on providing **innovative solutions** for a large array of

applications. In addition to our **custom** experience, we make a broad range of **standard** pressure regulators, valves and electronic pressure control components.

As a long-time supplier to the U.S. government and key contractors, we build components conforming to stringent military and international standards.

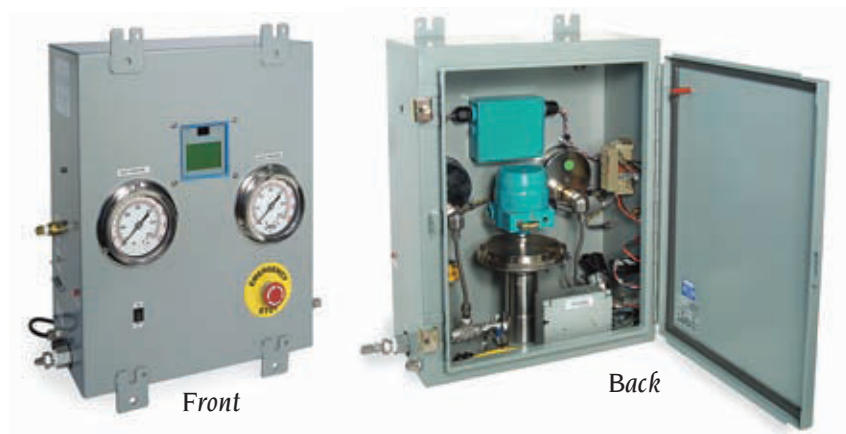
We supply pressure controls and systems to all major industries. Our customers are the recognized leaders in their field.

Custom integration & systems to simplify your pressure, flow & measurement applications!

Tescom provides:

- The know-how to integrate components made by Tescom and others.
- Direct engineering **support**. We'll provide the ideas or work with yours.
- An extremely large selection of existing pressure and flow components: ranges from **vacuum to 30,000 PSIG**.
- A wide array of dome and air-loaded regulators combined with **electronic pressure controllers** to automate pressure routines.
- The ability to integrate **electronics** with your system. Custom software too.
- Materials including 316 stainless steel, brass, Monel and Hastelloy®.
- Design and manufacturing facilities in the U.S. and Germany.
- Sales offices in most major cities **around the world**.
- An **ISO 9001:2000** certified quality system and Japanese METI self-inspecting manufacturer certification.

Custom Assemblies, Manifolds and Systems



Moulding Machine Control Box

This custom designed multiple function pressure control box includes Tescom's ER3000 PID controller, pressure reducing regulator, user interface and custom designed software. A custom pressure profile actuates the pump and takes the system through various pressure schedules.



Portable Calibration System

Here, an operator may select different pressure steps depending on the model number of the unit tested. No configuration or setup is needed. A Graphical User Interface provides pressure and configuration information.



Custom Designed Pressure Test Bench

Tescom has incorporated many of its own designs to update and automate internal testing procedures. Test systems include ER3000 PID controllers, air operated valves and regulators, hand operated regulators and custom software.



Comprehensive Automatic Changeover System

A sophisticated design provides continuous gas and fluid pressure management. The high pressure purge valves included, allow users to purge lines before and after new supply cylinder change out.



Stackable Pressure Components

Custom designed manifold block components reduce the end to end dimension as well as eliminate many potential leak paths. System design includes pressure reducing regulator, ER3000 PID Controller, transducer, back pressure regulator and shut-off valve.



High Pressure Valve Manifold

Tescom's VG valves are bolted together to minimize plumbing and space requirements. This manifold is part of a system that calibrates pressure transducers.



Portable Pressure Controller

Designed to test a wide range of pressure components in place, this manifold-based, hand-held unit can be built for low or high pressures. Unit is compact, weighs 15-18 lbs. and includes a safety relief valve.



Custom Designed O2 Manifold

This pressure reducing manifold is custom designed for high pressure oxygen service. Unit includes regulator, gauges, a shut-off valve, and isolation and check valves.



*Automated Pressure Switch
Test Fixture*

Tescom's design team created custom hardware and software to automate the testing of pressure switches to strict customer requirements. Unit tests up to five switches, slowly ramping pressures until they've all actuated. Automated testing improves productivity and product reliability.



Deep-sea Pressure Simulator

Used to simulate pressure of a deep-sea environment, panel is capable of generating and regulating hydraulic pressures up to 10,000 PSIG at various ramp rates. Panel may be controlled via remote computer or the local potentiometer and switches.



Back Pressure Control Panel

Made-to-order hydraulic pressure control panel includes: Tescom's 54-2300 Series (Cv=1.6) hydraulic back pressure regulator, six VG Series air operated on/off valves and six low pressure solenoid valves.

Our custom solutions save you time, space, money...

a. O₂ Manifold Pressure Control Panel

... designed as a compact, field replaceable kit, panel is very simple to install and operate.



a.

b. Pressure & Temperature Test Manifold

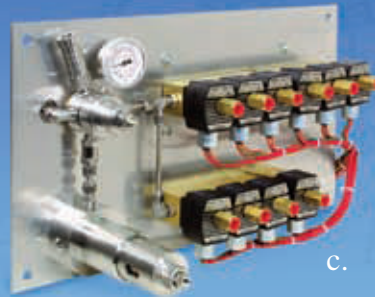
... used in testing master brake cylinders and pressure sensors. Includes VA valves, ER3000 electronic controllers, a 26-2000 Series Regulator, accumulators and a pressure transducer.



b.

c. Cylinder Valve Control Panel & Manifold

...functions to actuate Tescom's VA Valve used in a hydrogen fuel cell filling station. Includes a regulator and manifold mounted solenoid valves.



c.

d. Hydrogen Fill Station Dispensing Panel

... alternative fuels dispensing panel includes VA Series Valves, a Tescom pressure reducing regulator, a transducer and block manifold solenoid valves.

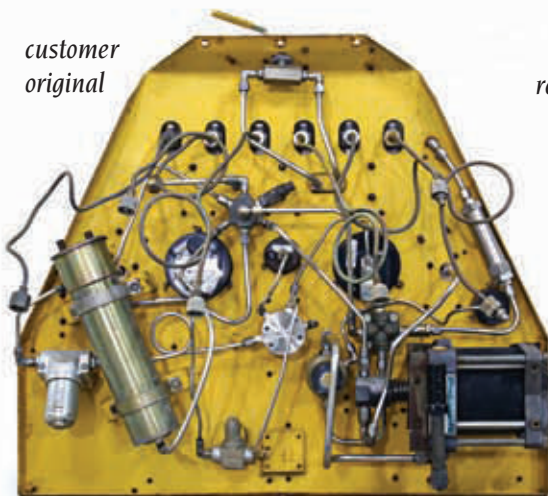


d.

'Streamlining' is what we do!

Let us design an improved version of your outdated, troublesome equipment ... something that's easy to install, operate and maintain, like the Oxygen panel here.

*customer
original*



*Tescom
replacement*





*Industrial Systems Group
& Industrial Controls Division
Elk River, Minnesota USA*



*High Purity Controls Division
Elk River, Minnesota USA*

Tescom Corporation ...a global presence!

*Tescom Europe
Selmsdorf, Germany*



Want to streamline your application?

Contact the Industrial Systems Group today and let us simplify your pressure, flow or measurement application. We have the experience and expertise you need!

Call 1-800-447-1204 (within USA) or send an email to: systems@tescom.com.

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