

Pressure Control Solutions for Aerospace & Defense

TESCOM
CORPORATION



Years of experience... *innovative solutions*

Tescom is an experienced provider of high quality regulators, valves, 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 can 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 difficult applications.

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

Superior design & manufacturing... *proven performance*

As a long-time supplier to the U.S. government and key contractors, we design and 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.

We take pride in our unique in-house machining capabilities and latest automatic welding equipment. CNC mills and lathes assure the highest accuracy.

A sophisticated computerized production control and scheduling system helps provide on-time delivery of regulators and valves for rated government orders.



Our quality system

Tescom actively employs a comprehensive Quality Assurance program. Our quality systems are in full compliance with ISO 9001:2000. Tescom's calibration system is traceable to national standards and meets MIL-STD-45662.

All Tescom's pressure control products are cleaned to CGA 4.1 and ASTM G93 (Intermediate Level) standards at no additional cost. Tescom's facility is approved for cleaning in accordance with MIL-STD-1330. Additional high pressure O₂ cleaning can be provided.



Our most popular components... many more to choose from

High Pressure - Pressure Reducing		Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
 <p>26-1000 Series</p> <ul style="list-style-type: none"> • Outlet pressure ranges are field changeable • Numerous porting options • Optional inlet pressures to 20,000 PSIG • Large handknob provides fast low-torque pressure settings 	<ul style="list-style-type: none"> • U.S. Navy Approved • Cleaned to MIL-STD-1330 • Panel mounting standard • Gauge ports standard 	6,000 PSIG 10,000 PSIG	5-500, 5-800, 10-1500, 15-2500, 25-4000, 50-6000, 200-10,000 PSIG	$C_V = .02$ $C_V = .06$ $C_V = .12$	Brass, 300 SST 316 SST
	<ul style="list-style-type: none"> • U.S. Navy Approved • Cleaned to MIL-STD-1330 • Low torque pressure setting • Panel mounting standard • Gauge ports standard 	6,000 PSIG	10-4000 PSIG	$C_V = .30$	Brass
 <p>44F5600 Series</p> <ul style="list-style-type: none"> • Diaphragm sensed - highly sensitive • Modular construction - easy service • External sensing available for improved accuracy • Balanced main valve increases seat life 	<ul style="list-style-type: none"> • U.S. Navy Approved • Cleaned to MIL-STD-1330 • Panel mounting standard • Gauge ports standard 	5,100 PSIG	30-400 PSIG	$C_V = 2.0$	300 SST
	<ul style="list-style-type: none"> • Diaphragm sensed - highly sensitive • Modular construction - easy service • External sensing available for improved accuracy • Balanced main valve increases seat life 	6,000 and 10,000 PSIG	100-6000 PSIG	$C_V = 3.3$ $C_V = 6.0$ $C_V = 12.0$	Brass, 300 SST
High Flow - Pressure Reducing		Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
 <p>26-1200 Series</p> <ul style="list-style-type: none"> • Diaphragm sensed - highly sensitive • Modular construction - easy service • External sensing available for improved accuracy • Balanced main valve increases seat life 	<ul style="list-style-type: none"> • U.S. Navy Approved • Cleaned to MIL-STD-1330 • Panel mounting standard • Gauge ports standard 	5,100 PSIG	30-400 PSIG	$C_V = 2.0$	300 SST
	<ul style="list-style-type: none"> • U.S. Navy Approved • Cleaned to MIL-STD-1330 • Low torque pressure setting • Panel mounting standard • Gauge ports standard 	6,000 and 10,000 PSIG	100-6000 PSIG	$C_V = 3.3$ $C_V = 6.0$ $C_V = 12.0$	Brass, 300 SST

For our complete line of standard regulators & valves, visit us at www.tescom.com.

Unique applications... custom solutions

Our professional design team is prepared to assist you in every way possible. Custom designed pressure controls and customer service are Tescom's forte.

Tescom design engineers are experts in pneumatic and hydraulic applications as well as electronically actuated pressure control.

Applications of Tescom controls include oxygen generating plants, laser systems, missiles, naval vessels, diving and life support.

Custom manifolds & systems...

simplify your pressure, flow & measurement applications

Tescom provides:

- The know-how to integrate components made by Tescom and others.
- Direct engineering support.
- A very 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®.



Stackable Pressure Components



Regulator with welded flanges



Custom Designed O₂ Manifold



Motorized Cartridge Style Valve



High Pressure Valve Manifold

New manifold style charging carts...

rugged, safe, easy to use

Modular block manifold

- Unique block manifold design greatly minimizes potential leak paths.
- Modular style manifold means a down cart can be back in service quickly.
- Most cart components (e.g., regulators, valves, tires, hoses) are interchangeable among all models. Fewer spare parts are needed in inventory.
- Check valve design eliminates excess loss of pressure or media. No backfilling!

Charger 2
two bottle cart



Charger 3
three bottle cart



Charger 6
six bottle cart



Quick media replenishment

- Carts are designed for easy bottle removal.
- Six bottle cart features an optional 300 lb. capacity ladder providing a 12' maximum work height.
- Onboard O₂ supply can be replenished easily without time-consuming bottle removal... saves time & money!
- Control panel is easy to access & read.
- Custom colors, graphics & logos available upon request.

Thick wall steel construction

- Pressure control instrumentation shielded from weather.
- Full one year factory warranty for all carts!
- Heavy-duty thick wall steel construction means a long service life.

Safety is built in

- Oxygen pressure systems independently tested and verified by Wendell Hull & Associates, leading oxygen experts.
- Durable powder coat paint is standard.
- All carts designed for optimal safety...
 - manifold is constructed of brass & cleaned for O₂ service
 - manifold soft goods are O₂ compatible
 - prominent labels warn of potential safety hazards.
- All pressure systems are designed to meet ASTM G93 & CGA 4.1 cleanliness requirements.
- All instructions and parts lists included.



Instrument control panel is easy to access & read



The Engineered Solutions COMpany

Tescom's Industrial Controls Division grew by providing custom solutions to its customers.

We design, manufacture and sell a wide range of regulators and valves to a diverse global market.

The Electronic Controls Division designs and manufactures leading technology electronic pressure controls.

www.tescom.com

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Represented by:

TESCOM CORPORATION
INDUSTRIAL CONTROLS DIVISION

Tel: 800-447-1250

Fax: 763-241-3224

E-mail: systems@tescom.com

**12616 Industrial Boulevard
Elk River, MN 55330-2491**