



# Aerospace & Defense

*Pressure control solutions for your industry.*

**TESCOM**

  
**EMERSON**  
Process Management

## 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.

For over 40 years, TESCOM has built its reputation on providing innovative solutions for a wide array of 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 ISO 10012-1.

All TESCOM 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 O<sub>2</sub> 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
<b>26-1000 Series</b>  <ul style="list-style-type: none"> <li>• Outlet pressure ranges are field changeable</li> <li>• Numerous porting options</li> <li>• Optional inlet pressures to 20,000 PSIG</li> <li>• Large handknob provides fast low-torque pressure settings</li> </ul>	<ul style="list-style-type: none"> <li>• Gas &amp; liquid applications</li> <li>• Large sensor</li> <li>• Captured &amp; segregated vent</li> <li>• Panel mounting standard</li> <li>• Spring, dome &amp; air actuated models available</li> <li>• Gauge ports available</li> </ul>	6,000, 10,000 PSIG (414, 690 bar)	5-500, 5-800, 10-1500, 15-2500, 25-4000, 50-6000, 200-10,000 PSIG (.35-35, .35-55, .7-103, 1-172, 1.7-276, 3.5-414, 13.8-690 bar)	C <sub>V</sub> = .02 C <sub>V</sub> = .06 C <sub>V</sub> = .12 C <sub>V</sub> = .30	Brass 316 SST
	<b>44-1500 Series</b> 	<ul style="list-style-type: none"> <li>• High pressure, high flow</li> <li>• Balanced valve</li> <li>• Self-venting standard</li> <li>• Low torque pressure setting</li> <li>• Panel mounting standard</li> <li>• Gauge ports available</li> </ul>	6,000 PSIG (414 bar)	10-400 PSIG (.7-27.6 bar)	C <sub>V</sub> = .30
<b>44-1300 Series</b> 	<ul style="list-style-type: none"> <li>• High pressure, high flow</li> <li>• Balanced valve</li> <li>• Self-venting standard</li> <li>• Low torque pressure setting</li> <li>• Panel mounting standard</li> <li>• Gauge ports available</li> </ul>	4,500 PSIG (310 bar)	0-300, 0-600, 0-1,000, 0-1,500 PSIG (0-20.7, 0-41.1, 0-70, 0-103 bar)	C <sub>V</sub> = .80 C <sub>V</sub> = 2.0	Brass 300 SST 316 SST
		6,000 PSIG (414 bar) available	2,500 & 3,000 PSIG (172 & 207 bar) available		
High Flow - Pressure Reducing		Inlet Pressure (maximum)	Outlet Pressure Ranges	Flow Capacity	Body Material
<b>26-1200 Series</b>  <ul style="list-style-type: none"> <li>• Diaphragm sensed - highly sensitive</li> <li>• Modular construction - easy service</li> <li>• External sensing available for improved accuracy</li> <li>• Balanced main valve increases seat life</li> </ul>	<ul style="list-style-type: none"> <li>• Diaphragm sensed - highly sensitive</li> <li>• Modular construction - easy service</li> <li>• External sensing available for improved accuracy</li> <li>• Balanced main valve increases seat life</li> </ul>	6,000, 10,000 PSIG (414, 690 bar)	100-6000 PSIG (7-414 bar)	C <sub>V</sub> = 3.3 C <sub>V</sub> = 6.0 C <sub>V</sub> = 12.0	300 SST 316 SST

For our complete line of standard regulators, valves & systems, visit us at [www.TESCOM.com](http://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.
- An expansive selection of existing pressure and flow components: ranges from vacuum to 30,000 PSIG (2,068 bar).
- 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*



*Motorized Cartridge Style Valve*



*Custom Designed O<sub>2</sub> Manifold*



*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 throughout the models... fewer spare parts are needed in inventory.
- Check valve design eliminates excess loss of pressure or media. No backfilling!



## Auto Cascade System

*automatic operation  
& priority fill*

**NEW!**

## Charger 3

*three bottle cart*



## Charger 2

*two 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 (136 kg) capacity ladder providing a 12 ft (3.65 m) maximum work height.
- Onboard O<sub>2</sub> 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 O<sub>2</sub> service
  - manifold soft goods are O<sub>2</sub> 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*



We are your global partner in precision pressure control.

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