

Valves



Premium quality, high cycle life.

TESCOM™


EMERSON™
Process Management

Our high cycle life valves will keep your system running!

TESCOM makes an extensive line of highly reliable valves, setting new standards in the number of on-off cycles achieved.

- We never use castings. Our entire valve line is precision machined from bar stock.
- Extra features like a balanced main valve and seat-saving metal stops make TESCOM valves extremely durable in the most demanding applications.
- Our VA valve was named “Breakthrough Product of the Year” by a leading trade publication.
- In an independent application test, one of our standard valves achieved over 250,000 cycles: 128 times the life of the big-name brand used originally (details on file).



Standard, modification or custom – we’ll find the solution!



- TESCOM will do what it takes to find a fit for your application.
- We *truly* thrive on custom solutions. No order is too small!
- Our wide range of standard models allow almost limitless modification - materials, porting, actuation, seals, etc.
- Besides Stainless Steel, we can make any valve in brass, Monel, Hastelloy® or other material.
- Actuation methods available include: multi-turn, solenoid, air, lever and electronic controller.
- Several TESCOM valves can be used at very wide ranges – some at 0-20,000 psi.
- Ask us about a drop-in replacement for your existing valve.



TESCOM standard valves are only a starting point...



VA ON/OFF Valve



VG ON/OFF Valve
(solenoid option shown)



VT 3-Way Valve

Product Series/Features	Operating Pressure	Flow Capacity (maximum)	Body Material
VA & VG Series: Air Operated ON/OFF Valves			
<ul style="list-style-type: none"> • Normally open or normally closed • Very high cycle life • Balanced main valve - reduces required actuation pressure (30-60 psig/2-4 bar) • Normally closed VA certified O₂ compatible by Wendell Hull & Assoc., Inc. (017 modification) • Toggle actuator optional • Compact package 	6000 psig 414 bar 10,000 psig 690 bar 15,000 psig 1035 bar 20,000 psig 1380 bar	VA: C _v = .75 VG: C _v = 2.0	Brass or 316 SST
VT Series: 3-Way Valve			
<ul style="list-style-type: none"> • High cycle life in a compact design • Balanced main valve • 3 way, 2 position • Universal operation • Solenoid valve optional • Pneumatic & hydraulic applications 	10,000 psig 690 bar 6000 psig 414 bar 3500 psig	C _v = .75	Brass or 316 SST
30 Series: Shutoff Valves			
<ul style="list-style-type: none"> • Globe or angle Pattern • Built-in metallic stop prevents over-torquing - reduces seat wear • 30-1100 Series: available with metering capability (long stem optional) • Bi-directional flow (all models) 	10,000 psig 690 bar	30-1100 globe: C _v = .28 30-1100 angle: C _v = .49 30-1300 globe: C _v = 1.57 30-1300 angle: C _v = 2.30 30-1200 globe: C _v = 8.0 30-1200 angle: C _v = 10.0 30-1400 globe: C _v = 20.0	300 SST



30 Series Shutoff Valves

Don't see what you need? Call our application engineers at 800-447-1250. We may already have the exact modification you're looking for... or we'll create one to suit your needs!

The possibilities are endless!



VJ Bi-directional Valve



VK Block and Bleed



CC Metering Valve



30 Series Cartridge Valve



VA Series Cartridge Valve



VA Cartridge Valve
(toggle style) in typical manifold

Product Series/Features	Operating Pressure (maximum)	Flow Capacity	Body Material
VJ Series: Low Flow/Bi-directional			
<ul style="list-style-type: none"> Versatile bi-directional flow High pressure, low flow valve Built-in metallic stop Designed to be O₂ compatible 	6000 psig 414 bar 10,000 psig 690 bar	C _v = .49 (angle) C _v = .28 (globe)	Brass or 316 SST
VK Series: Block and Bleed			
<ul style="list-style-type: none"> Allows construction or repair along a pressurized line Allows residual downstream pressure to bleed to zero Low operating torque High cycle life 	10,000 psig 690 bar 6000 psig 414 bar	C _v = .28	Brass or 316 SST
VN Series: Y-Pattern			
<ul style="list-style-type: none"> Optimal full path Low torque handknob Replaceable soft seats Grayloc® hub connections available 	10,000 psig 690 bar	C _v = 20.0	316 SST
CC Series: Metering Valves			
<ul style="list-style-type: none"> Precise control at very low flows For liquid or gas applications 20+ turns from shutoff to full open Non-rotating stem reduces seat wear 	Full vacuum to 10,000 psig 690 bar	C _v = .00005 C _v = .00125	316 SST
Cartridge Valves			
<ul style="list-style-type: none"> Externally threaded and designed to be easily installed in a manifold block Reduces piping and eliminates connections Reduces space requirements and makes servicing easier Can be furnished in a wide variety of valve styles Contact factory for application assistance 			

Custom Assemblies, Manifolds & Systems

TESCOM is an experienced provider of high quality manifolds, custom assemblies and systems for control of pressure and flow. We can simplify your existing system or create a new one to meet your needs.

TESCOM provides:

- The know-how and experience to integrate components manufactured by and others. Get one-on-one engineering support to find the best solution!
- An extremely large selection of existing valves, regulators and flow components: pressure 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 and data acquisition.
- Integrated electronics and custom software.



High pressure valve manifold used to calibrate transducers



Made-to-spec valve & regulator hydraulic control panel

Panel used in a fueling application includes valves, regulators & integrated electronics



Aircraft charging cart manifold panel incorporates VA cartridge style valves with lever actuation

TESCOM: An innovator in pressure control for over forty years!

TESCOM serves all industrial markets. Distributor support centers are located in major cities worldwide, providing application assistance and quality TESCO product.



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