



Valves

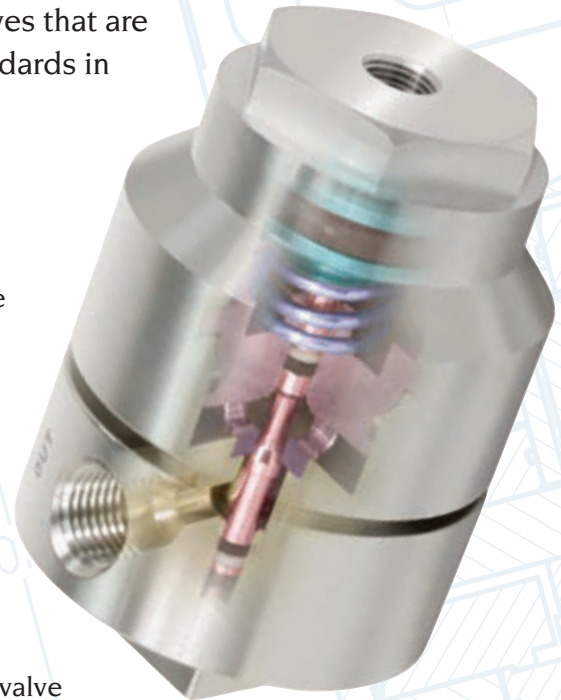
premium quality
high cycle life

TESCOM
CORPORATION

Our high cycle life valves will keep your system running!

Tescom makes an extensive line of highly reliable valves that are earning patents and even awards as they set 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 2002.
- 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).
- We've secured numerous U.S. patents for our innovative designs. Recent firsts include a unique air operated 'balanced' valve and an 'in-line' configured high pressure valve with a flow of $C_v = 12$!



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®, Titanium 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 0-15,000 psi.
- Ask us about a drop-in replacement for your existing valve.



Tescom's standard valves are only a starting point...



VA ON/OFF Valve



VG ON/OFF Valve
(solenoid option shown)



VA Valve
Toggle Actuated



Explosion-proof linear actuated high pressure valve



3-Way Valve Manifold



VL Series Valve: $C_v = 12$



30 Series Shutoff Valves

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	6,000 PSIG	VA: C _V = .75	Brass or 316 SST
<ul style="list-style-type: none">• Very high cycle life	10,000 PSIG	VG: C _V = 2.0	
<ul style="list-style-type: none">• Balanced main valve - reduces required actuation pressure (30-60 PSIG)	15,000 PSIG		
<ul style="list-style-type: none">• Normally closed VA certified by Wendell Hull & Assoc., Inc. to be O₂ compatible	20,000 PSIG		
<ul style="list-style-type: none">• Toggle actuator optional			
<ul style="list-style-type: none">• Compact package			
3-Way Valve Manifold			
<ul style="list-style-type: none">• Normally open or normally closed	10,000 PSIG	C _V = .75	Brass or 316 SST
<ul style="list-style-type: none">• Same design features as VA Series (above)	6,000 PSIG		
<ul style="list-style-type: none">• Air operated			
<ul style="list-style-type: none">• Solenoid actuation optional: 12 VDC, 24 VDC or 120 AC			
VL Series: C_V = 12			
<ul style="list-style-type: none">• Balanced main valve - reduces required actuation pressure	6,000 PSIG	C _V = 12.0	316 SST
<ul style="list-style-type: none">• Normally closed			
<ul style="list-style-type: none">• In-line flow configuration			
<ul style="list-style-type: none">• U.S. Patent Pending			
30 Series: Shutoff Valves			
<ul style="list-style-type: none">• Globe or angle Pattern	10,000 PSIG	30-1100 globe: C _V = .28	300 SST
<ul style="list-style-type: none">• Built-in metallic stop prevents over-torquing - reduces seat wear		30-1100 angle: C _V = .49	
<ul style="list-style-type: none">• 30-1100 Series: available with metering capability (long stem optional)		30-1300 globe: C _V = 1.57	
<ul style="list-style-type: none">• Bi-directional flow (all models)		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	

The possibilities are endless!



VJ Bi-directional Valve



CC Metering Valve



FL7000 Flow Limit Valve



VK Block and Bleed

Product Series/Features	Operating Pressure (maximum)	Flow Capacity	Body Material
VJ Series: Low Flow/Bi-directional			
• Versatile bi-directional flow	6,000 PSIG	C _v = .49 (angle)	Brass or
• High pressure, low flow valve	10,000 PSIG	C _v = .28 (globe)	316 SST
• Built-in metallic stop			
• Designed to be O ₂ compatible			
CC Series: Metering Valves			
• Precise control at very low flows	Full vacuum to	C _v = .00005	316 SST
• For liquid or gas applications	10,000 PSIG	C _v = .00125	
• 20+ turns from shutoff to full open			
• Non-rotating stem reduces seat wear			
FL7000 Series: Flow Limit Valve			
• Designed to stop flow automatically when flow exceeds a pre-set limit	100 - 1,000 PSIG	0-7 scfm	316 SST
• Protects downstream personnel & equipment from exposure to hazardous media	300 - 2,500 PSIG	0-13 scfm	
	600 - 5000 PSIG	2.5-26 scfm	
VK Series: Block and Bleed			
• Allows construction or repair along a pressurized line	10,000 PSIG	C _v = .28	Brass or
• Allows residual downstream pressure to bleed to zero	6,000 PSIG		316 SST
• Low operating torque			
• High cycle life			
Cartridge Valves			
• 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			

For OEM users, private labelling is available.



30 Series Cartridge Valve



VA Series Cartridge Valve



VA Cartridge Valve (toggle style) in typical manifold



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!

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 made by Tescom and others. Get one-on-one engineering support to find the best solution!
- A very large selection of existing valves, regulators 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.
- Integrated electronics and custom software, if required.



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
CORPORATION
The Engineered Solutions COMpany

- Tescom Corporation, originally founded in 1917, has designed and manufactured valves, pressure regulators, electronic controllers, manifolds and systems for over forty years.
- Distributor support centers are located in major cities worldwide, providing application assistance and quality Tescom product. Direct sales offices are located in California, New Jersey, Scotland and South Korea.
- Elk River, Minnesota and Selmsdorf, Germany are the homes of our two design and manufacturing facilities.
- Tescom serves all industrial markets. Our valued customers are the recognized leaders in their field.
- Our quality system is ISO 9001 certified. We are approved by the Japanese government as a METI Self-Inspecting Manufacturer

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