

**TRIMTECK**®

**General Brochure**

**OPTIMUX**®

Process control  
**solutions**  
to optimize  
**plant**  
**performance.**



- ▶ Trimteck® supplies an array of global industries with high-quality, cost effective flow control solutions for critical processes. Welcome to the ultimate element of control.

**[www.trimteck.com](http://www.trimteck.com)**

**Flow Control Products**

# OpGL™ Globe Control Valve

Reliable. Rugged. Economical.



Optimux® globe control valves provide superior performance while permitting easy, fast, and inexpensive maintenance.

Unlike diaphragm-operated control valves, the Piston cylinder-actuated OpGL™ provides stiffness, maintains high positioning accuracy control – making for the world's most efficient and accurately responsive valve.

Diameter	Body Style	Connections	Materials	Internals
1/2"-48": ANSI Class 150-600 • 1"-24": ANSI Class 900-4500	Globe, Angle, Three-way, Steam-jacketed, Y-body	Integral Flanges, Socket Weld, Butt Weld and NPT	Carbon steel, Stainless steel, Chrome-molly, Alloy 20, Hastelloy B&C, Titanium, and others	Flow characteristics: Equal percentage, linear and quick-open. Seats available in metal Class V or soft Class VI



## OpEXL™ Eccentric Plug Valve

*High performance for a wide range of applications.*

The Optimux® OpEXL™ is characterized by its innovative eccentric plug. Its 'not-through' shaft allows uninterrupted fluid flow and delivers higher Cv's . Regular maintenance cycle surpasses five years for most applications. Available with our line of RPA Rack and Pinion Actuators.



Diameter	Type	Nominal Pressures	Plug Materials	Seat Materials	Actuators
1" - 8"	Eccentric Plug Valve	ANSI Class 150, 300, 600 Flanged Body	316 SS with CVD-5B or Stellite #6	316 SS with CVD-5B or Stellite #6	OptK rotary actuator with fail safe spring & rocking piston, RPA rack & pinion & Electric Actuators

## OpVEE™ V-Notch Control Valve

*Rugged enough for hard-to-handle and particle-entrained processes*

The OpVEE™ was designed to be used in a wide range of applications, including: chemical, pulp & paper, power, and petroleum services. It has solved many long-standing valve-related challenges, such as tensions in piping that unevenly load the seat, small ranges due to limited orifice characterizations, and unsatisfactory shutoff capabilities. Its integral flanges design standard and piston cylinder actuator deliver plenty of thrust for high performance throttling.



Diameter	Type	Nominal Pressures	Ball Valve Materials	Actuators
1" - 16"	V-Notch Ball Valve	ANSI Class 150, 300, 600 Flanged Body	Stainless steel with hard chrome plating, stellite, Hastelloy C, Hastelloy B/B2, Monel, Alloy 20, and Titanium	OpTK rotary actuator with fail safe spring & rocking piston, RPA rack & pinion & Electric Actuators



# OpTB™ Trunnion Ball Valve

*Legendary robustness and reliability with added flexibility*

The Optimux® OpTB™ delivers excellent rangeability and accurate control for pressure Classes 150 to 1500 while maintaining critical features such as fire-safe and metal-to-metal tight shutoff. Designed with flexibility in mind, the full bore ball is totally compatible and interchangeable with the new Process Optimizer Ball (POB™).



Diameter	Nominal Pressures	Ball Materials	Seat Ring	Actuators
2" – 24"	ANSI Class 150, 300, 600, 900 & 1500	ASTM A105/ENP-CVD-5B; ASTM A182-F316/CVD-5B	ASTM A105/ENP-CVD-5B; ASTM A182-F316/CVD-5B	RPA Rack and Pinion, Scotch Yoke, etc.

## OpDX™ Butterfly Control Valve

*Pressure-assisted seating achieves bi-directional shut-off and low breakout torque*

The OpDX™ butterfly control valve is a high performance rotary valve with an eccentric cammed disc that ensures accurate throttling. Its same flangless body (wafer) serves ANSI classes 150, 300, and 600 in 2", 3", 4", 6" and 8" sizes. With our piston and cylinder actuator, this butterfly valve has greater flow capacity than any globe, plug, and cammed control valve.



Diameter	Type	Nominal Pressures	Materials	Actuators
2"-24"	Wafer	ANSI Class 150, 300, 900, 1500, 2500	Carbon and SS, Chrome-molly, alloy 20, Monel, Hastelloy B&C, Titanium, and other casting materials	OpTK rotary actuator with fail safe spring & rocking piston, RPA rack & pinion & Electric Actuators



# OpTE™ Triple Eccentric Butterfly Valve

*High torque and triple offset design ensures zero leakage*

The Optimux® OpTE™ triple offset design provides bi-directional bubble-tight shut-off for critical applications in a wide variety of industrial processes such as petroleum refining, cryogenics applications, pulp and paper and many others. Our unique design also assures low industrial fluid emissions and is fully compliant with the most demanding EPA industry requirements.



For complete specifications and information, download free Brochures and Manuals at [www.trimteck.com](http://www.trimteck.com)

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Diameter	Nominal Pressures	Disc Materials	Seat Ring	Actuators
2"–48"	ANSI Class 150, 300 & 600	A216 WCB Nickel Plated; A351 Gr. CF8M/CVD-5B	Duplex + Graphite	Various

*The new standard when smart positioners are required with Optimux® valves*

Our new HPP4000 brings to the market all the field proven attributes of our former HPP3000 plus all the additional features our users have requested for the past few years: LCD Display, 4-20mA feedback signal, HART® communication protocol and Auxiliary Limit Switches, all of these within our legendary and well proven robust enclosure capable of sustaining the most rigorous industrial plant conditions.

The Optimux® HPP4500 microprocessor-equipped, current-to-pneumatic digital positioner is a reliable, accurate and robust positioner with an array of exceptional features. The HPP4500 offers as a standard, Hart® communication, 4-20mA Feedback Signal and a LCD display that allows programming and set up without the need of a Hart® communicator.





# Technology | Severe Service Trims

*Let Trimteck solve your severe service applications*

Trimteck® offers its customers timely, cost effective products to enhance performance while driving down operating and maintenance costs. With many years of experience in the design and manufacture of control valves for arduous applications, Trimteck has an extensive knowledge for meeting today's challenges.

Our rationale is simple: invest in a custom engineered product and enjoy extended performance combined with a dramatic reduction in operation, maintenance and lost production costs caused by failures and untimely shutdowns.

Problem valves are generally those which suffer from extreme service conditions including the effects of erosion, cavitation, flashing, vibration, noise and corrosion.

Multi-phase fluids, some which may contain contaminants, contribute further considerations with regard to velocities to offset potential fluid impingement and particle erosion. To overcome these challenges, Trimteck considers three definitive aspects:

- Solve problems utilizing multi-stage trim technology.
- Utilize application guidelines defining design criteria.
- Ensure correct application of materials.



**ST-2 Concentric Cylinders  
technology for noise reduction  
and prevention of cavitation**

## Parts | Original Replacement Components

***The combination of superior quality and workmanship delivers a second-to-none, competitively-priced line of replacement parts***

One of our core commitments to Optimux control valve users around the world is to provide the lowest cost-of-ownership in the valve industry. A commitment that we can achieve by providing competitive prices for our original Optimux valves, as well as their replacement parts.

If you are in need of trims, soft parts, retainers, actuator replacement kits, etc., give us, or any of our Authorized Distributors worldwide, a call. We can assure you that your plant's control valve replacement part budget will be significantly reduced while maintaining OEM quality in all your purchases.





*A commitment to delivering consistent value to our customers*

## **About**

Trimteck® is a family-owned American company with over thirty years of experience in engineering, manufacturing, and marketing flow control solutions and equipment for a variety of industries. Our application engineers and certified representatives are committed to personalized customer service and have an extensive line of products and technologies to draw upon when designing and specifying a solution.

With a comprehensive line of Optimux control valves – and an array of actuators, positioners, severe service trims, and other accessories – our engineers and representatives can solve the most complex flow control problems quickly and economically. Moreover, our organizational focus on implementing highly efficient sourcing, engineering, manufacturing, assembly, and distribution processes enables us to guarantee world-class quality, competitive pricing, and rapid delivery to anywhere in the world.

## **Global Distribution**

Trimteck® counts on well-managed, competent, and diversified channels - including in-country Authorized Distributors, OEMs, Systems Integrators, and Certified Service Centers - to assure value to our end-users worldwide.

Please visit [trimteck.com](http://trimteck.com) to locate an Authorized Trimteck Distributor in your area.



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