



Valtek® Valdisk™

High-Performance Butterfly Control Valve



Experience In Motion

Maintain process integrity and ensure a smooth production flow

Control valves play a critical role in process applications by maintaining process integrity and ensuring a smooth production flow. They assure process variables remain close to the desired setpoint and facilitate improvements in process productivity, plant uptime and employee safety.

Control valve reliability is even more vital in demanding, high-cycle applications — such as pressure swing adsorption (PSA) and air separation in oil and gas refineries and chemical refining — that experience more than 200,000 cycles per year.

Operators in these and other industries are challenged with selecting durable control valves that deliver reliable performance, high control and throttling accuracy while minimizing operating, maintenance and ownership costs.

The Valtek Valdisk control valve from Flowserve is a high-performance butterfly valve designed to improve uptime and minimize operating and ownership costs. It is engineered to deliver bubble-tight shutoff, reliable control and throttling accuracy in a variety of standard and high-cycle applications.

Improved uptime

The Valdisk control valve features a soft seat designed to provide long-lasting, tight shutoff in both flow directions. This allows for optimum leakage resistance in demanding applications to minimize downtime and improve plant productivity.

Lower maintenance costs

The double-offset disc design minimizes seat and disc wear as well as leakage, which extends seat life and reduces maintenance costs.

High-performance throttling

The Valdisk control valve has a high-thrust cylinder actuator coupled with an eccentric-cammed disc, which enables unmatched, high-performance throttling.

Flowserve is everywhere you are

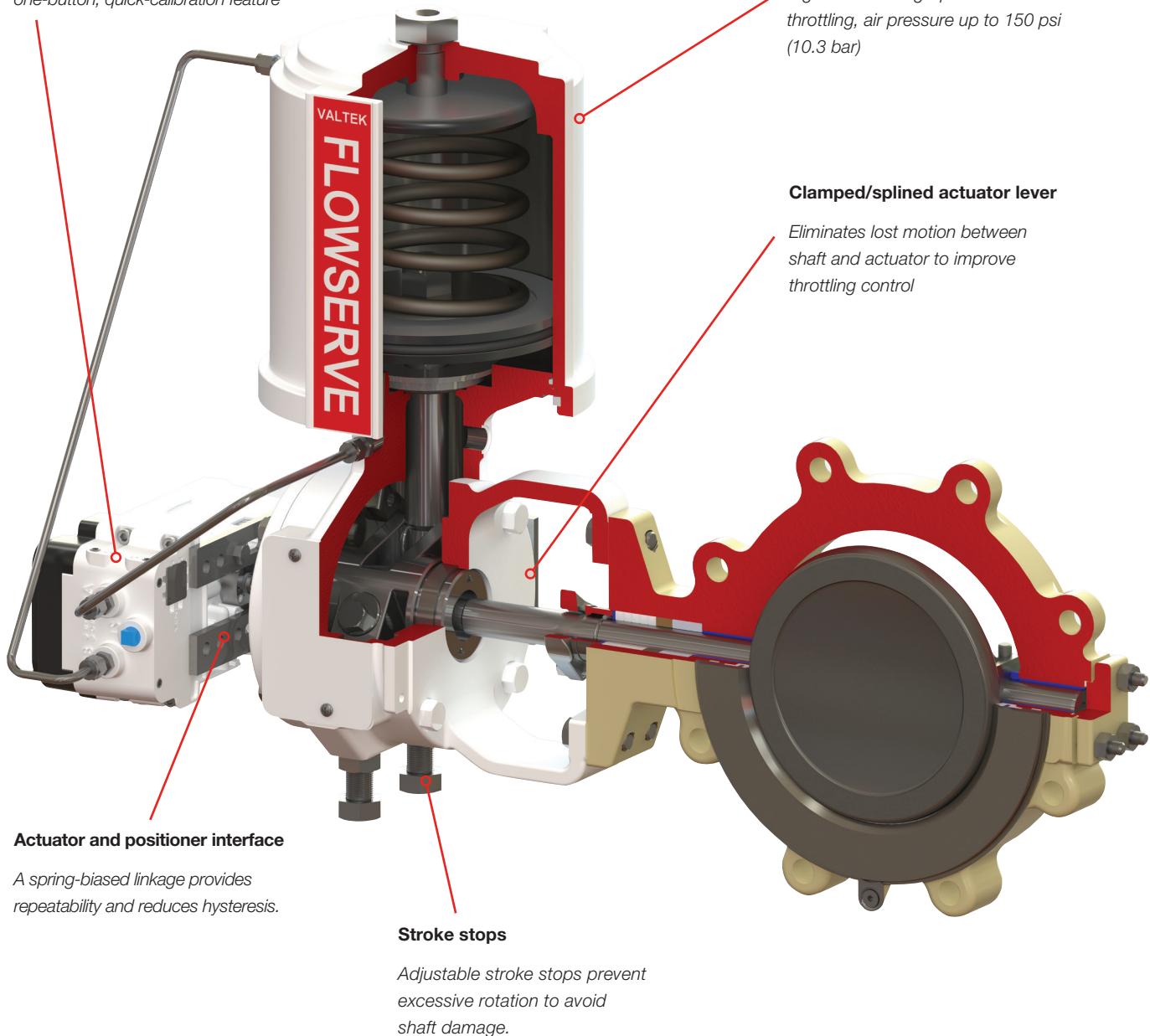
Flowserve manufacturing sites and Quick Response Centers are located all around the world, so customers have on-the-spot availability for technical support and experienced field service technicians.

Wherever your operations are, Flowserve is there to help you be successful.



Logix™ 3800 positioner

Digital positioner for high reliability and simplified installation with an innovative, one-button, quick-calibration feature



Splined shaft end

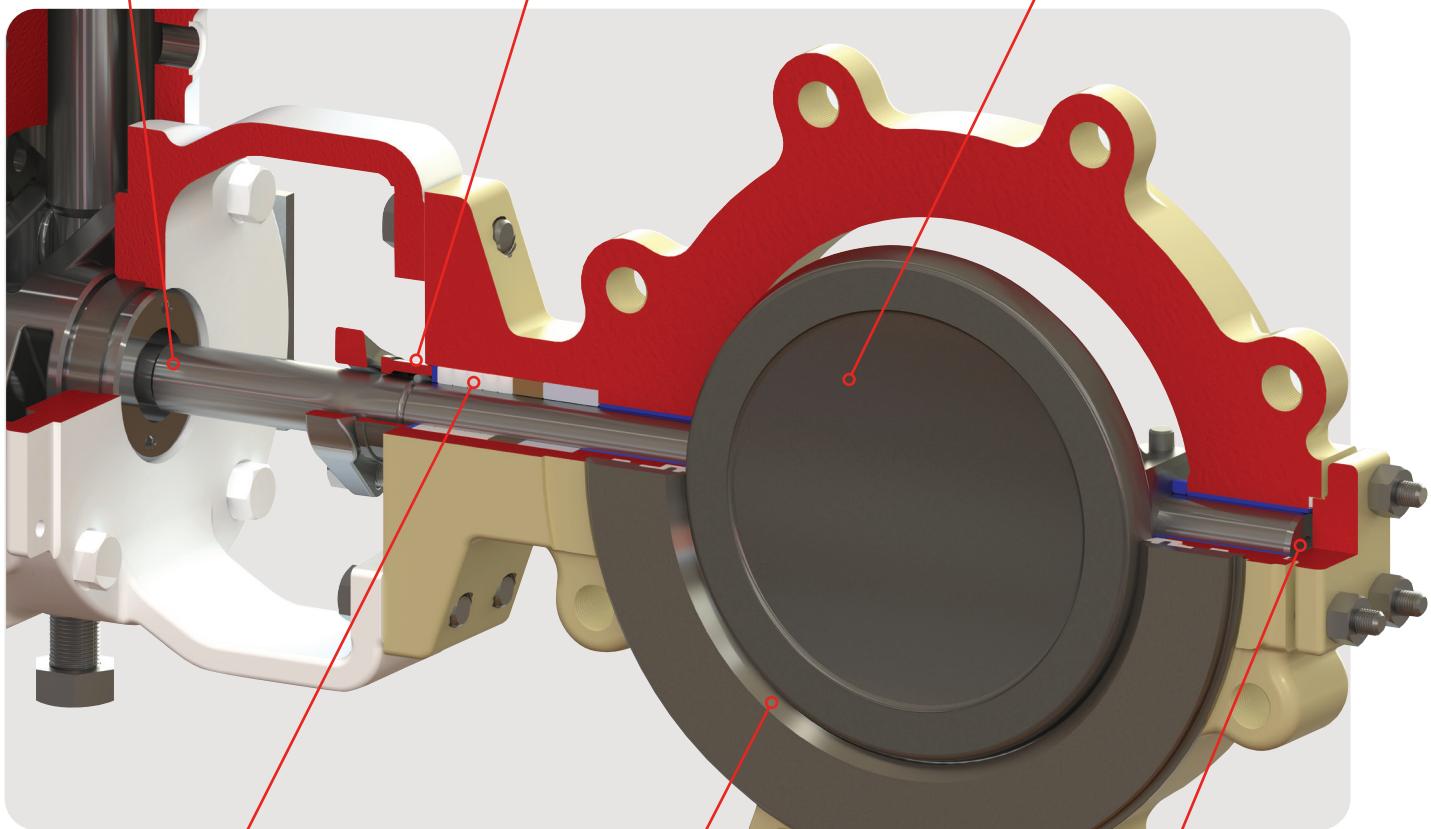
One-piece, splined shaft end provides a tight connection between shaft and actuator to improve throttling control.

Shaft retention

Anti-blowout protection for safety compliance to industry standards

Pinned shaft to disc

Tapered pins provide tight connection for excellent control without the need to drill the shaft.



Packing options

Low-emissions for variety of applications, complying with industry standards

Excellent shut-off

Soft seat/jam-lever toggle (Class VI) and metal seat (Class IV) provide reliable, long-life, shut-off capability.

Heavy-duty end post

Robust design for safety and easy maintenance

Specifications and certifications

Options	ASME	DIN
Sizes	NPS 2 to 60	DIN 80 to 600
Pressure classes	ASME CL 150 to 1500	PN 10 to 40
End connection	ASME 16.5 and ASME B16.47	EN 1092-1 raised face
Body materials	WCC, CF8M; alloys upon request	1.0619, 1.4408; alloys upon request
Face to face	API 609 (Valtek standard for large sizes)	EN 558 Series 20
Body style	Lug, wafer (flangeless), double-flanged	Lug, wafer
Temperature	-196°C to 427°C (-320°F to 800°F)	
Packing	PTFE V-ring, braided PTFE, graphite braid, SureGuard XT, SafeGuard	
Packing type	Single, twin, vacuum, live-loaded, fire-safe	
Shut-off	ANSI/FCI 70-2: Class IV (metal seat) and VI (soft seat)	

Design standards

ASME (B16.34, B16.10, B16.25), PED, DIN, CRN, ISO, NACE, EN

Test standards

ASME B16.34, ANSI/FCI 70-2

Certifications/approvals

ISO 9001, PED, CRN, TRCU, SIL



Limitorque® LPS pneumatic Scotch yoke actuator

The Limitorque LPS actuator is ideal for medium or large valve actuation and any application requiring robust design, long service life and high-speed operation. Its modular construction allows easy on-site maintenance without special tools or valve removal. The actuator's 25-year design life and maintenance intervals of up to six years lower its total cost of ownership.

Actuation and instrumentation

VR spring cylinder rotary actuator

The Flowserve VR spring cylinder rotary actuator combines high torque and pneumatic stiffness with excellent throttling capabilities. These characteristics are designed into a lightweight, rugged and compact assembly, making this actuator an ideal choice for quarter-turn applications.



Logix 3800 digital positioner

Compatible with linear and rotary valves and actuators, the Logix 3800 digital positioner delivers high reliability in harsh environments. It provides unparalleled modularity and versatility within a single unit. Its ability to handle double- or single-acting, linear and rotary applications reduces inventory and operating costs. An innovative, one-button, quick-calibration feature simplifies installation.



Flowserve Corporation
5215 North O'Connor Blvd.
Suite 2300
Irving, Texas 75039-5421 USA
Telephone: +1 937 890 5839

VABR000158-01 (EN/A4) November 2020

Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the Installation Instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because Flowserve is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice. Should any question arise concerning these provisions, the purchaser/user should contact Flowserve Corporation at any one of its worldwide operations or offices.

©2020 Flowserve Corporation. All rights reserved. This document contains registered and unregistered trademarks of Flowserve Corporation. Other company, product, or service names may be trademarks or service marks of their respective companies.