



# *Valtek ShearStream Segmented Ball Valve Series*



*Experience In Motion*



## ***Valtek ShearStream***

Effective control for demanding flows. After more than one hundred years of close cooperation with our customers, we at Flowserve know what it is all about. Our robust valve and actuators, together with our advanced positioners, are designed to cope with the demands and control of all types of flowing media. With the focus on performance. Flowserve's products are compact, modular-built, high performance packages that are optimized for exact control and cost-

effective continuous operation. They have an extremely long life span as all parts are of highest quality. And they'll still be safe in the future as they use advanced technology and innovative solutions. Flowserve ensures a safe and cost-effective operation for our customers all over the world



**Valtek ShearStream SB**



**Valtek ShearStream HP**



## **Applications**

High capacity, large turndown, moderate pressure drops, economical usage  
High flow rates based on unrestricted straight-through port

### **General Services**

- When Globe- or Butterfly Valves are not suitable
- Chemical Industry – general services
- Petrochemical Industry – high temperatures, low emissions
- General Industries – Water, Oil, Gas

### **More Severe Services**

- Abrasive, erosive and corrosive applications
- Slurry, 2-phase Flow
- Liquid or pneumatic conveying
- Pulp, ash sluice water, plastic granules etc.

## **Valtek Positioner Options**



### **XL**

Extreme accuracy dual-stage analog, electropneumatic / pneumatic positioner. Explosionproof or Intrinsically safe.



### **Logix 500si Series**

Economical compact user friendly digital positioner. With or without communication. Intrinsically safe.



### **Logix 3000IQ Series**

Full-featured double acting, high volume digital positioner with HART or Foundation Fieldbus communication. Explosionproof or Intrinsically safe.

## Valtek ShearStream SB

The excellent control characteristic of ShearStream SB are particularly beneficial in general control conditions found in the Process- and Chemical Industry. This is a default choice for standard applications, standard material selections and for moderate pressure ratings

### Features

- Direct mounting of Turnex actuator
- One piece body
- Multiple packing options
- Tight shut-off
- Seat options
- Easy maintenance
- Characterized Ball Sector



### Specification

Material	Carbon Steel (WCB) Stainless Steel (CF8M)
Sizes	ANSI 1" to 20" DIN DN25 to DN500
Pressure Classes	ANSI Class 150 to Class 300 DIN PN10 to PN40
End Connections	Flanged ANSI 1" to 20" / DIN DN25 to DN500 Wafer ANSI 1" to 8" / DIN DN25 to DN200

## Options

### ShearStream SB with Z-Trim

Works perfectly for steam regulation.  
ShearStream SB-Z can be used in a wide variety of applications and meets the highest demands for control accuracy.

The unique Z-Trim design reduces noise and avoids cavitation by taking the pressure drop in several steps. The Z-trim is self-cleaning so it can also be used with slurries.



### Environmental Packing

SafeGuard packing set is an approved, tested and certified packing arrangement in accordance with ISO 15848-1.

### Turnex - Actuator package

Heavy duty actuator for high performance control. Turnex has a swing-link mechanism for scotch-yoke torque characteristics with no back-lash. Available as single- and double acting, fail open or fail close.

Direct mounted to Valve, Positioner, Solenoid Valves, Limit Switches.

Compact actuator with low mass for easy mounting.

Maintenance free for a long life

Integrated air channels.

Splines for different stem diameters.

Torque range of 100 – 20.000 Nm at 5 bar.



## **Valtek ShearStream HP**

“Robust” describes Valtek ShearStream HP Segmented Ball Valve. Designed to overcome the problems of harsh, particle entrained processes, ShearStream HP also provides accurate, reliable control in a broad range of applications such as chemical, power and petro-chemical.

### **Features**

- One piece body
- Segmented V-notch ball
- Heavy duty seat option
- Bi-directional flexible metal seat
- Flanged or wafer bodies
- Designed for higher pressure classes

### **Specification**

Material	Carbon Steel (WCB) Stainless Steel (CF8M) Other Alloys (Monel, Hastelloy B/C, Alloy 20, Titanium etc.)
Sizes	ANSI 1” to 16”
Pressure Classes	ANSI Class 150 to Class 600
End Connections	Flanged , Wafer



## Seat Options

### Flexible Metal Seat

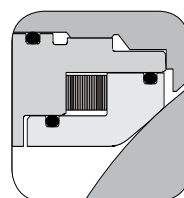
The flexible metal seat uses the pressure drops across the seal to enhance its shut-off characteristics in both directions.

### Soft Seat

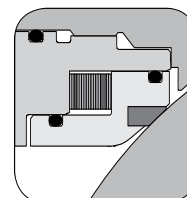
The Soft Seat utilizes PTFE or PEEK soft seat inserts. The soft seat is also available with a metal back-up seal.

### Heavy Duty Seat

For applications requiring high pressure drops, the heavy duty seat provides tight shut-off and reliability. The sealed wave spring gives the seat consistent seating pressure that is long-lasting. The soft seat option for the Heavy Duty seat utilizes an UHMWPE insert.



Metal seat



Soft seat

## Valtek – Spring Cylinder Rotary Actuator

The Valtek spring cylinder rotary actuator combines high torque and pneumatic stiffness with excellent throttling capabilities. These characteristics are designed into a lightweight, robust and compact assembly, making the Valtek rotary actuator the foremost choice for ShearStream HP.



Your contact:



FCD VLEEBR0027-01 01.11

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**Flowserve Corporation**

Flow Control  
1350 N. Mt. Springs Parkway  
Springville, UT 84663  
USA  
Phone: +1 801 489 8611  
Fax: +1 801 489 3719

**Flowserve (Austria) GmbH**

Control Valves - Villach Operation  
Kasernengasse 6  
9500 Villach  
Austria  
Phone: +43 (0)4242 41181 0  
Fax: +43 (0)4242 41181 50

**Flowserve India Controls Pvt. Ltd**

Plot # 4, 1A, E.P.I.P, Whitefield  
Bangalore Kamataka  
India 560 066  
Phone: +91 80 284 10 289  
Fax: +91 80 284 10 286

**Flowserve Essen GmbH**

Manderscheidstr. 19  
45141 Essen  
Germany  
Phone: +49 (0)201 8919 5  
Fax: +49 (0)201 8919 662

**Flowserve S.A.S.**

7, Avenue del la Libération - BP 60  
63307 Thiers Cedex  
France  
Phone: +33 (0)4 73 80 42 66  
Fax: +33 (0)4 73 80 14 24

**NAF AB**

Gelbgjutaregatan 2  
SE-581 87 Linköping  
Sweden  
Phone: +46 (0)13 31 61 00  
Fax: +46 (0)13 13 60 54