



# *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 granulates etc.

## Valtek Positioner Options



### XL90

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 HP

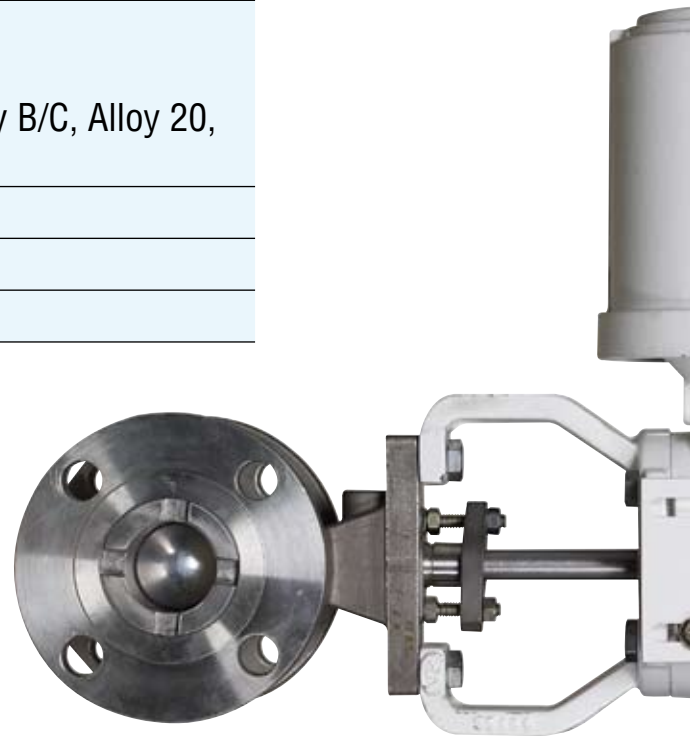
*“Robust” describes Valtek ShearStream HP Segmented Ball Valve. Designed to overcome the problems of harsh, particle entrained processes, ShearStream HP also provides accurate, reliable control in a broad range of applications such as chemical, power and petro-chemical.*

## Specification

|                  |  |
|------------------|--|
| Material         | Carbon Steel (WCB)<br>Stainless Steel (CF8M)<br>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  |

## Features

- *One piece body*
- *Segmented V-notch ball*
- *Heavy duty seat option*
- *Bi-directional Flex-loc seat*
- *Various end connection options*
- *Designed for higher pressure classes*



## Options

### Seat Options

#### Flex-loc Metal Seat

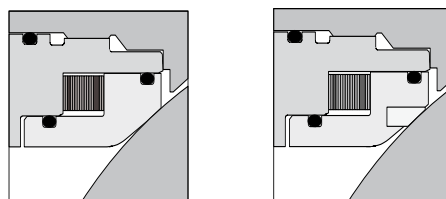
The Flex-loc metal seat uses the pressure drops across the seal to enhance its shut-off characteristics in both directions.

#### 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 PTFE or PEEK as well.



### Valtork – 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 light-weight, robust and compact assembly, making the Valtek rotary actuator the foremost choice for ShearStream HP.

# Valtek ShearStream SB

*The excellent control characteristic of ShearStream SB are particularly beneficial in general control conditions like in the Process- and Chemical Industry.*

*Direct mounting of Turnex actuator*

*One piece body*

*Characterized ball sector*



*Easy maintenance*

*Various packing options*

*Tight shut-off*

*Seat options*



## Specification

|                  |   |
|------------------|---|
| Material         | Carbon Steel (WCB)<br>Stainless Steel (CF8M)  |
| Sizes            | ANSI 1" to 20"<br>DIN DN25 to DN500   |
| Pressure Classes | ANSI Class 150 to Class 300<br>DIN PN10 to PN40                                       |
| End Connections  | Flanged ANSI 1" to 20" / DIN DN25 to DN500<br>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 patented Z-Trim design reduces noise and cavitation by taking the pressure drop in several steps. It can also be used for medias with impurities or fibres and have a self cleaning effect.



### Environmental Packing

SafeGuard packing set is an approved , tested and certified packing arrangement in accordance with ISO 15848-1 for the whole pressure and temperature range.

### Actuator package

Heavy duty actuator for high performance control, modified scotch-yoke called linkages system to prevent any 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 60 – 20.000 Nm at 5 bar





Your contact:



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