

# Клапаны линейного регулирования

## Технические характеристики

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*Mark One*

## LINEAR CONTROL

Ideal for high-accuracy flow control, the Flowserve family of globe/angle linear control valves can be applied from general service to severe applications for both gas and liquids. They are ideal for frequent operation due to their excellent position accuracy and repeatability. Precision control is repeatedly achieved via longer strokes and assured actuator response. Users can satisfy a range of requirements, with choices ranging from cryogenic designs to low noise and anti-cavitation trims.

### Linear Control – Quick Reference

Product	Sub-Type	Sizes	Pressures	Temperatures
<b>Mark One™</b>	Linear Globe/Angle	DN 15 to 915 NPS ½ to 36	PN 10 to 400 Class 150 to 2500	-196°C to 815°C (-320°F to 1500°F)
<b>Mark One Three-Way</b>	Linear Globe/Angle	DN 15 to 300 NPS ½ to 12	PN 10 to 400 Class 150 to 2500	-196°C to 400°C (-320°F to 1500°F)
<b>Mark One-X</b>	Linear Globe/Angle	to DN 300 to NPS 12	PN 50 to 100 Class 300 to 600	-196°C to 815°C (-320°F to 1500°F)
<b>Mark 100</b>	Linear Globe/Angle	DN 150 to 750 NPS 6 to 30	PN 10 to 100 Class 150 to 600	-196°C to 815°C (-320°F to 1500°F)
<b>Mark 200</b>	Linear Globe/Angle	DN 50 to 400 NPS 2 to 16	PN 160 to 400 Class 900 to 2500	-196°C to 815°C (-320°F to 1500°F)
<b>Mark Two™</b>	Linear Globe/Angle	DN 15 to 150 NPS ½ to 6	PN 10 to 400 Class 150 to 2500	-196°C to 815°C (-320°F to 1500°F)
<b>Mark Eight™</b>	Linear Globe/Angle	DN 25 to 500 NPS 1 to 20	PN 10 to 400 Class 150 to 2500	-196°C to 815°C (-320°F to 1500°F)
<b>GS</b>	Linear Globe/Angle	DN 15 to 150 NPS ½ to 6	PN 16 to 40 Class 150 to 300	-60°C to 400°C (-76°F to 752°F)

# LINEAR CONTROL

## LINEAR GLOBE/ANGLE

### Mark One

Superior performance in liquid and gaseous services, with easy, fast and inexpensive maintenance.



Valtek

- Reliable performance provided by the position accuracy, repeatability and assured response from the positioner plus the stiff and high-thrust, spring-cylinder actuator
- Significant application flexibility offered by a broad solutions envelope and a wide variety of trim options to eliminate cavitation damage and abate noise
- Installation and maintenance ease resulting from compact, light-weight package
- Lower maintenance and spare inventory costs facilitated by the clamped-in seat and top-entry trim plus a high degree of parts interchangeability

#### SPECIFICATIONS

Sizes: to DN 300; to NPS 12  
Press: PN 10 to 400; Class 150 to 2500  
Temp: -196°C to 815°C  
(-320°F to 1500°F)

Refer to literature VLENTB0001 at / library.

## LINEAR GLOBE/ANGLE

### Mark One Three-Way

A three-way version of the Mark One, this valve is used for combining or diverting service. Like the Mark One, it offers superior performance in liquid and gaseous services in simple, rugged design.



Valtek

- Reliable performance provided by the position accuracy, repeatability and assured response from the positioner plus the stiff and high-thrust, spring-cylinder actuator
- Enhanced process control due to exceptionally tight shutoff
- Reduced inventory carrying costs owing to a high degree of interchangeability with Mark One Series valves
- Fast, easy and inexpensive maintenance facilitated by compact, lightweight body and actuator package plus clamped-in seat and top-entry trim

#### SPECIFICATIONS

Sizes: DN 15 to 300; NPS ½ to 12  
Press: PN 10 to 400; Class 150 to 2500  
Temp: -196°C to 400°C  
(-320°F to 752°F)

Refer to literature VLENTB0001 at / library.

## LINEAR GLOBE/ANGLE

### Mark One-X

The Mark One-X offers a cost-effective means of installing a small valve in a much larger line without line reducers or expanders. It is identical to a standard Mark One except for its body, which has expanded outlets.



Valtek

- Lower valve and installation costs made possible by using a smaller, lighter valve and eliminating line expanders and reducers (plus their associated welding and radiography requirements)
- Reliable performance provided by the position accuracy, repeatability and assured response from the positioner plus the stiff and high-thrust, spring-cylinder actuator
- Reduced downtime with clamped-in seat and self-aligning seat ring
- Decreased inventory carrying costs from a high degree of interchangeability with Mark One Series valves

#### SPECIFICATIONS

Sizes: DN up to 300; NPS up to 12  
Press: PN 50 to 100; Class 300 to 600  
Temp: -196°C to 815°C  
(-320°F to 1500°F)

Refer to literature VLATB100 at / library.



Valtek

## LINEAR GLOBE/ANGLE

**Mark 100**

A large control valve designed for larger size applications. Suited for maximum capacity  $C_v$  and severe applications in both gas and liquid services.

- Cost-effective performance, as higher  $C_v$  capacity allows for smaller valve sizes
- Superior process control made possible by long stroke lengths, the position accuracy, repeatability and assured response from the positioner, and the stiff and high-thrust, spring-cylinder actuator
- Reduced downtime with the clamped-in seat and self-aligning seat ring
- Severe service application versatility provided by a wide variety of noise abatement and anti-cavitation trims

## SPECIFICATIONS

Sizes: DN 150 to 750; NPS 6 to 30  
 Press: PN 10 to 100; Class 150 to 600  
 Temp: -196°C to 815°C  
 (-320°F to 1500°F)

Refer to literature FCATB0100 at /library.



Valtek

## LINEAR GLOBE/ANGLE

**Mark 200**

Designed for gas and liquid control while significantly reducing noise and cavitation. Ideal for high-flow, high-pressure and extreme temperature applications in the oil and gas and power industries.

- Cost-effective and significantly smaller and lighter design that outperforms competing brands
- Greater severe service protection with finer control provided by larger galleries and longer strokes
- Improved safety and reduced maintenance costs derived from a broad spectrum of severe service trim solutions for noise abatement and cavitation control
- Easy, low-cost maintenance and extremely tight shutoff made possible by the clamped-in seat and self-aligning seat ring

## SPECIFICATIONS

Sizes: DN 50 to 400; NPS 2 to 16  
 Press: PN 160 to 400;  
 Class 900 to 2500  
 Temp: -196°C to 815°C  
 (-328°F to 1500°F)

Refer to literature VLENTB0200 at /library.

**Giants of Offshore Production**

When building the world's largest FPSOs, capable of producing 500 000 barrels of oil per day, ExxonMobil chose Flowserve pump and valve control systems for its Kizomba A and B floating platforms. Drawing on decades of offshore experience, Flowserve provided 74 high-performance pump systems and 360 control valves. Most were custom engineered to accommodate the weight and space parameters of the project.



# LINEAR CONTROL

## LINEAR GLOBE/ANGLE

### Mark Two

Fabricated from bar stock, the Mark Two is an extremely versatile automatic control valve. It is available in many different configurations with short lead times, even in high-pressure classes or special alloys.

- Application versatility arising from numerous body styles, end connections, bonnet types and materials of construction
- Reduced maintenance owing to top-entry trim with clamped-in seat ring and double stem-guided design, which eliminates contact between the plug and seat retainer
- Parts interchangeability with Mark One Series valves
- Available cryogenic extended bonnet handles temperatures down to -253°C (-423°F)

#### SPECIFICATIONS

Sizes: DN 15 to 150; NPS ½ to 6  
Press: PN 10 to 400; Class 150 to 2500  
Temp: -196°C to 815°C  
(-320°F to 1500°F)

Refer to literature VLATB106 at / library.



Valtek

## LINEAR GLOBE/ANGLE

### Mark Eight

The Mark Eight features a unique Y-style globe body that provides higher flow capacities and less process turbulence than conventional globe valves.

- Lower valve recovery factor and higher  $C_v$  per given size over traditional globe style valves due to the nearly straight-through passage of the Y-style body
- Significantly reduced noise and vibration owing to less restrictive body style, which generates less line turbulence
- Easy, low-cost maintenance and extremely tight shutoff made possible by clamped-in seat and self-aligning seat ring
- Decreased inventory carrying costs from a high degree of interchangeability with Mark One Series valves

#### SPECIFICATIONS

Sizes: DN 25 to 500; NPS 1 to 20  
Press: PN 10 to 400; Class 150 to 2500  
Temp: -196°C to 815°C  
(-320°F to 1500°F)

Refer to literature VLENTB0008 at / library.



Valtek

## LINEAR GLOBE/ANGLE

### Valtek GS

A fully integrated valve-actuator-instrumentation package for continuous process, general service flow loop control throughout the plant.

- Low total cost of ownership derived from an integrated package combining a GS linear globe valve, Logix™ 420 digital positioner and FlowAct pneumatic diaphragm actuator
- Smaller and lighter design that outperforms competing brands
- Broad application versatility enabled by excellent control accuracy, rangeability and repeatability
- Quick installation and simple setup by maintenance technicians without the need for instruments or process engineering skills; off-the-shelf availability worldwide

#### SPECIFICATIONS

Sizes: DN 15 to 150; NPS ½ to 6  
Press: PN 16 to 40; Class 150 to 300  
Temp: -60°C to 400°C (-76°F to 752°F)

Refer to literature VLENTB0300 at / library.



Valtek

## По вопросам продаж и поддержки обращайтесь:

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**Единый адрес для всех регионов: [fvr@nt-rt.ru](mailto:fvr@nt-rt.ru) || [www.flowserve.nt-rt.ru](http://www.flowserve.nt-rt.ru)**