

# Поворотные регулирующие клапаны

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*TMCBV*

## ROTARY CONTROL

Long life in severe conditions characterizes this flexible range of plug, ball and butterfly control valves. Precision control can be realized across a range of harsh applications, including fibrous slurries, entrained particles, steam and high-pressure/temperature liquids and gases. Users find numerous performance advantages, from reduced cavitation and flashing to low noise levels, as well as safety assurances from tight shut-off features and designs certified to the latest, global safety standards.

### Rotary Control – Quick Reference

Product	Sub-Type	Sizes	Pressures	Temperatures
<b>MaxFlo® 4</b>	Eccentric Plug	DN 25 to 300 NPS 1 to 12	PN 10 to 63 Class 150 to 600	-100°C to 400°C (-148°F to 750°F)
<b>ShearStream™ HP</b>	Segmented Ball	DN 25 to 400 NPS 1 to 16	PN 10 to 63 Class 150 to 600	-46°C to 316°C (-50°F to 600°F)
<b>Setball™</b>	Segmented Ball	DN 25 to 700 NPS 1 to 28	PN 10 to 40 Class 150 to 300	-30°C to 250°C (-22°F to 482°F)
<b>Setball SF</b>	Segmented Ball	DN 25 to 250 NPS 1 to 10	PN 10 to 40 Class 150 to 300	-30°C to 250°C (-22°F to 482°F)
<b>Valdisk</b>	High-Performance Butterfly	DN 50 to 750 NPS 2 to 30	PN 10 to 400 Class 150 to 2500	-196°C to 649°C (-320°F to 1200°F)
<b>Torex</b>	High-Performance Butterfly	DN 80 to 700 NPS 3 to 28	PN 10 to 40 Class 150 and 300	-30°C to 350°C (-22°F to 662°F)
<b>TMCBV</b>	Trunnion-Mounted Control Ball	DN 75 to 1400 NPS 3 to 56	Class 150 to 2500 API 3000, 5000, 10 000	-196°C to 450°C (-320°F to 842°F)
<b>Trunnball DL</b>	Trunnion-Mounted Control Ball	DN 150 to 900 NPS 6 to 36	PN 10 to 40 Class 150 to 300	-30°C to 250°C (-22°F to 482°F)
<b>CPT</b>	Floating Control Ball	DN 8 to 100 NPS ¼ to 4	PN 20 to 110 Class 150 to 600	-29°C to 427°C (-20°F to 800°F)
<b>Duball DL</b>	Floating Control Ball	DN 25 to 400 NPS 1 to 16	PN 10 to 40 Class 150 to 300	-30°C to 350°C (-22°F to 482°F)

# ROTARY CONTROL

## ECCENTRIC PLUG

### MaxFlo 4

Cost-competitive, high-performance general service control valve designed for applications demanding higher rangeability, precise control and higher flow capacity.



Valtek®

- Economical performance with the highest rated  $C_v$  (as much as 70% more than competitors), which sometimes allows for smaller sizes to be used
- Longer service life and more precise control enabled by the robust polygon shaft/plug connection
- Low maintenance costs due to double-offset eccentric plug design that reduces seat wear while providing reliable Class IV (metal seat) and VI (soft seat) shutoff
- Improved safety with superior shaft blow-out protection from the ASME B16.34 shaft design

#### SPECIFICATIONS

Sizes: DN 25 to 300; NPS 1 to 12  
Press: PN 10 to 63; Class 150 to 600  
Temp: -100°C to 400°C  
(-148°F to 750°F)

Refer to literature VLENBR0064 at / library.

## SEGMENTED BALL

### ShearStream HP

Rugged segmented ball valve designed to withstand harsh, particle-entrained processes found in the power, chemical, and oil and gas industries.



Valtek

- Increased uptime enabled by a durable, long-lasting design that easily handles abrasive, erosive and corrosive fluids
- Broad application versatility enabled by exceptional control and rangeability
- High-capacity and large turndown performance due to unrestricted straight-through port design
- High-pressure drop capability with the optional spring-loaded, heavy-duty seat, which provides reliable Class IV (metal seat) and Class VI (resilient UHMWPE seat) shutoff

#### SPECIFICATIONS

Sizes: DN 25 to 400; NPS 1 to 16  
Press: PN 10 to 63; Class 150 to 600  
Temp: -46°C to 316°C (-50°F to 600°F)

Refer to literature VLEEBR0027 at / library.

## SEGMENTED BALL

### Setball

Cost-competitive general service V-port ball valve that offers excellent rangeability and high-flow capacity.



NAF

- High control accuracy over wide range and under severe conditions provided by V-shaped sector
- Low lifecycle and maintenance costs due to the ability to use low operating torque actuators
- Versatile design that combines the best control characteristics of ball and butterfly valves, allowing it to function as a control and shutoff valve
- Application versatility made possible by specialized materials and stem seal options

#### SPECIFICATIONS

Sizes: DN 25 to 700; NPS 1 to 28  
Press: PN 10 to 40; Class 150 to 300  
Temp: -30°C to 250°C (-22°F to 482°F)

Refer to literature Fk 41.51(19) at / library.

## SEGMENTED BALL

**Setball SF**

Cost-effective general services V-port ball valve that combines compact size, excellent control characteristics and high-flow capacity.

- Low total cost of ownership provided by compact face-to-face dimension and weight reduction
- Lower operating costs due to dual low-friction bearings and specially designed seat that make it possible to use a smaller actuator
- Environmental regulatory compliance enabled by one-piece, leak-proof, wafer-style body that minimizes leakage paths
- Optimum control performance provided by a stem with a splined transmission to the ball sector
- High-performance in a compact size due to direct actuator mounting

## SPECIFICATIONS

Sizes: DN 25 to 250; NPS 1 to 10  
 Press: PN 10 to 40; Class 150 to 300  
 Temp: 30°C to 250°C (-22°F to 482°F)  
 Refer to literature NFENTB4156 at / library.



NAF

## HIGH-PERFORMANCE BUTTERFLY

**Valdisk**

Heavy-duty design engineered for high-capacity and low-pressure loss. Ideal for fibrous slurries, liquids, and gas and steam applications under extreme pressures and temperatures.

- High-performance throttling, even in large pressure drops close to the seat, enabled by high-thrust cylinder actuator coupled with eccentric-cammed disc
- Greater throttling accuracy assured by low breakout torque provided by Jam-lever Toggle™ seating
- Superior process control with bi-directional, bubble-tight shutoff at high and low pressure drops
- Reduced maintenance costs made possible by double-offset disc design, which minimizes seat and disc wear plus reduces leakage

## SPECIFICATIONS

Sizes: DN 50 to 750; NPS 2 to 30  
 Press: PN 10 to 400; Class 150 to 2500  
 Temp: -196°C to 649°C  
 (-320°F to 1200°F)  
 Refer to literature VLATB010 at / library.



Valtek

## HIGH-PERFORMANCE BUTTERFLY

**Torex**

High-performance, triple-offset, metal- or soft-seated butterfly valve. Frequently used for isolation or on-off applications but equally suitable for control, especially on high-flow, low-pressure applications.

- Longer service life provided by triple-offset design which minimizes seat wear during opening and closing
- Cost-effectiveness provided by compact wafer design and low weight
- Improved safety assured by Safety Integrity Level (SIL) 3 and IEC 61508 certifications
- Increased uptime — even in difficult media and demanding pressures — through excellent design, materials and performance characteristics

## SPECIFICATIONS

Sizes: DN 80 to 700; NPS 3 to 28  
 Press: PN 10 to 40; Class 150 and 300  
 Temp: -30°C to 350°C (-22°F to 662°F)  
 Refer to literature Fk 41.42(17) at / library.



NAF

## ROTARY CONTROL



*Valbart*

### TRUNNION-MOUNTED CONTROL BALL

## TMCBV

Cost-efficient, compact gas valve that provides excellent flow capacity and high rangeability.

- Improved plant and personnel safety through excellent noise attenuation provided by industry-proven technologies
- Installation ease in tight piping runs enabled by small valve size
- Cost savings due to small actuator and lightweight pipe supports
- High-flow capacity offered in compact design via small valve and actuator sizes, system support and isolation

### SPECIFICATIONS

Sizes: DN 75 to 1400; NPS 3 to 56  
Press: Class 150 to 2500;  
API 3000, 5000 and 10 000  
Temp: -196°C to 450°C  
(-320°F to 842°F)

Refer to literature VLENBR0067  
at /library.



*NAF*

### TRUNNION-MOUNTED CONTROL BALL

## Trunnball DL

Full-port process ball valve well suited for the most challenging operating conditions. Frequently used for isolation or on-off applications, but equally suitable for control.

- Improved plant and personnel safety provided by the Z-trim option's excellent cavitation control and noise reduction
- Reduced maintenance enabled by spring-loaded stem seal packing
- Broad application flexibility facilitated by the extensive size range
- Optimum controllability through the use of a sturdy blowout-proof stem that provides high torque transmission with minimal mechanical backlash

### SPECIFICATIONS

Sizes: DN 150 to 900; NPS 6 to 36  
Press: PN 10 to 40; Class 150 to 300  
Temp: -30°C to 250°C (-22°F to 482°F)

Refer to literature NFENTB4168 at /  
library.



*Worcester*

### FLOATING CONTROL BALL

## CPT

Rugged and accurate general service valve designed for use in harsh throttling conditions and applications requiring precise computer controls.

- Extremely accurate control through efficient, straight-through flow, rotary shaft sealing and bubble-tight shutoff
- Smooth, stable throttling control due to lubricating action of special coating on ball and TFE/graphite impregnation throughout the thickness of the characterized seat
- Reduced maintenance costs and time due to the use of fewer parts
- Precise fit to match unique control needs through virtually limitless seat designs

### SPECIFICATIONS

Sizes: DN 8 to 100; NPS ¼ to 4  
Press: PN 20 to 110; Class 150 to 600  
Temp: -29°C to 427°C (-20°F to 800°F)

Refer to literature WCENBR1001 at /  
library.



NAF

## FLOATING CONTROL BALL

**Duball DL**

Rugged, high-performance general service valve designed for operating conditions where severe demands are made on the design, materials and performance. Available with metal or soft seats.

- Lower maintenance costs and time as well as improved safety with spring-loaded stem seal packing
- High performance enabled by the direct actuator mounting capabilities of the Turnex actuator
- Excellent control, noise reduction and cavitation enabled by unique Z-trim option
- Easy installation and replacement as a result of the off-center joint face of the valve body

## SPECIFICATIONS

Sizes: DN 25 to 400; NPS 1 to 16  
 Press: PN 10 to 40; Class 150 to 300  
 Temp: -30°C to 350°C (-22°F to 482°F)

Refer to literature NFENTB4167 at / library.

## Fast and Accurate Valve Selection and Sizing

Significantly reduce control valve sizing and selection errors and improve decision accuracy in record time with *Performance!™ Valve Sizing and Selection Suite*. It puts the power of on-demand control valve selection and sizing at your fingertips. With minimal application data — expected flow, pressure, temperature, process media and line size — *Performance!* identifies the Flowserve control valve, actuators and positioners best suited for your application and services conditions. It's the right tool for the finding the right product — the first time, every time.



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