

Клапаны для агрессивных продуктов

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*Mark 100
with Stealth trim*

SEVERE SERVICE CONTROL

Longer service life and lower maintenance costs are made possible through precision-engineered valve and trim options — even in corrosive, erosive and high-velocity applications. A range of advanced anti-erosion, noise reduction and anti-cavitation selections neutralizes the detrimental wear and tear that too often reduce valve life or lead to failures. Maximum flexibility is achieved through severe service products that incorporate a range of material, pressure and temperature options.

Severe Service Control – Quick Reference*

Product	Sub-Type	Sizes	Pressures	Temperatures
Survivor™	Anti-Erosion	DN 25 to 600 NPS 1 to 24	PN 20 to 420 Class 150 to 2500	-10°C to 400°C (14°F to 752°F)

* Additional products shown on next page

Severe Service Control – Quick Reference, cont'd.

Product	Sub-Type	Base Valve	Sizes	K _v (C _v) Range
MegaStream™	Noise Reduction	Valtek Mark Series	DN 25 to 900 NPS 1 to 36	4 to 8737 (5 to 10 100)
Stealth™	Noise Reduction	Valtek Mark Series	DN 80 to 900 NPS 3 to 36	to 3547 (4100)
TMCBV C2, N2 and Z2	Noise Reduction	Valbart TMCBV	DN 80 to 1400 NPS 3 to 56	117 to 77 850 (135 to 90 000)
Z-Trim™	Noise Reduction	Setball, Duball DL and Trunnball DL	DN 40 to DN 500; NPS 1.5 to 20	58 to 25 537
CavControl™	Cavitation Control	Valtek Mark Series	DN 25 to 600 NPS 1 to 24	1.3 to 865 (1.5 to 1000)
ChannelStream™	Cavitation Elimination	Valtek Mark Series	DN 40 to 900 NPS 1½ to 36	5 to 623 (6 to 720)
DiamondBack™	Cavitation Elimination	Valtek Mark Series	DN 40 to 400 NPS 1½ to 16	2 to 1773 (3 to 2050)
SideWinder™	Cavitation Elimination	Valtek Mark Series	DN 15 to 100 NPS ½ to 4	0.078 to 8.425 (0.09 to 9.74)



Valtek

ANTI-EROSION

Survivor

Reliable solutions designed for use in the harshest conditions — erosion, corrosion, slurry, high-velocity, and even flashing applications.

- High-flow capacity ensured by sweep angle design that minimizes particle erosion damage on the body
- Reduced maintenance and longer service life enabled by oversized gallery that decreases fluid velocity, minimizing erosion damage
- Reliable, long-lasting performance made possible with optional ceramic trim materials, providing the highest level of erosion resistance, even in flashing sonic velocity flow with abrasive solids
- Application-specific efficiency assured by custom-engineering

SPECIFICATIONS

Sizes: DN 25 to 600; NPS 1 to 24
 Press: PN 20 to 420; Class 150 to 2500
 Temp: -10°C to 400°C (14°F to 752°F)
 Refer to literature VLENTB0036 at / library.



Valtek

NOISE REDUCTION

MegaStream

MegaStream reduces control valve noise and vibration in a wide range of gas applications through staging, frequency shifting, attenuation and velocity control.

- Improved personnel safety due to noise attenuation up to 30 dBa
- Longer valve and system life enabled by reducing downstream noise and vibration
- Cost-effective, reliable and long-lasting performance derived from heavy-duty, nested cylinder design
- Low installation costs enabled by interchangeability with standard Mark Series seat retainers

SPECIFICATIONS

Base Valve: Valtek Mark Series
 Sizes: DN 25 to 900; NPS 1 to 36
 $K_v(C_v)$ Range: 4 to 8737 (5 to 10 100)
 Flow Direction: Under the plug
 Pressure Stages: 1 to 7
 Refer to literature FCENBR0067 at / library.

NOISE REDUCTION

Stealth

Stealth combines new advances in noise control with proven technologies to create the most effective device capable of eliminating noise in the most demanding services.

- Improved personnel safety due to significant noise reduction — by as much as 40 dBa — resulting from the combined effect of six noise-, velocity- and pressure-control mechanisms
- Longer valve and system life enabled by reducing downstream noise and vibration
- Increased valve capacity due to optimized flow path, which reduces exit turbulence
- Cost-competitive solution made possible by stacked disc construction

SPECIFICATIONS

Base Valve: Valtek Mark Series
 Sizes: DN 80 to 900; NPS 3 to 36
 $K_v(C_v)$ Range: to 3547 (4100)
 Flow Direction: Under the plug
 Pressure Stages: 6 to 20
 Refer to literature FCENBR0067 at / library.



Valtek

SEVERE SERVICE CONTROL

NOISE REDUCTION

TMCBV C2, N2 and Z2

These economical trim options offer cavitation- and noise-control options based on proven Flowserve MegaStream, CavControl and ChannelStream technologies.



Valbart

- Broad application flexibility enabled by TMCBV system, offering a wide range of exclusive trims for liquid and gas applications
- Reduced maintenance via self-cleaning trims (Z and N Series)
- Lower total cost of ownership made possible by smaller, lighter valves requiring less expensive actuators and pipe supports
- Greater personnel safety from noise attenuation of 20 to 30 dBA

SPECIFICATIONS

Base Valve: Valbart TMCBV
Sizes: DN 75 to 1400; NPS 3 to 56
 K_v (C_v) Range: 117 to 77 850
(135 to 90 000) Pressure Stages: 1 to 4

Refer to literature VLENBR0067 or VBENTB0068 at / library.

NOISE REDUCTION

Z-Trim

Z-Trim combines the benefits of an advanced control valve with the simplicity of a ball valve. Most effective with low to medium pressure drops, the Z-Trim excels at eliminating noise in high flow services.



NAF

- Innovative ball trim design provides effective noise attenuation where pressure drops are high, and still delivers the high capacity expected from a ball valve
- Improved personnel safety due to noise attenuation up to 17 dBA
- Increased reliability and reduced maintenance in applications with entrained media owing to self-cleaning design
- Installation and retrofit costs are kept low, as only one part must be changed

SPECIFICATIONS

Base Valve: Setball, Duball DL and Trunnball DL
Sizes: DN 40 to 500; NPS 1.5 to 20
 C_v Range: 58 to 25 537
Flow Direction: Bidirectional
Pressure Stages: 1 to 5

Refer to literature FCENBR0067 at /library.

CAVITATION CONTROL

CavControl

A cost-effective trim that minimizes cavitation damage to valve components with a special seat retainer that controls the location and concentrates vapor bubble implosion away from metal parts.



Valtek

- Lower maintenance costs plus improved reliability, performance and service life due to innovative design that controls damage by isolating cavitation away from metal components
- Low cost of ownership and simplified maintenance made possible by high degree of parts interchangeability with other valve models
- Broad application versatility enabled by characterization option

SPECIFICATIONS

Base Valve: Valtek Mark Series
Sizes: DN 25 to 600; NPS 1 to 24
 K_v (C_v) Range: 1.3 to 865 (1.5 to 1000)
Flow Direction: Over the plug
Pressure Stages: 1

Refer to literature FCENBR0068 at / library.



Valtek

CAVITATION ELIMINATION

ChannelStream

ChannelStream trim prevents cavitation from forming and minimizes hydrodynamic noise in the most severe liquid applications.

- Reduced maintenance and extended service life assured by cavitation-eliminating design, even in the most difficult applications
- Increased efficiency from staged pressure drops
- Low cost of ownership made possible by high degree of parts interchangeability with conventional Mark One valves
- Broad application flexibility available with characterization option

SPECIFICATIONS

Base Valve: Valtek Mark Series
 Sizes: DN 40 to 900; NPS 1½ to 36
 K_v (C_v) Range: 5 to 623 (6 to 720)
 Flow Direction: Over the plug
 Pressure Stages: 2 to 6
 Refer to literature FCENBR0068 at /library.



Valtek

CAVITATION ELIMINATION

DiamondBack

The most technologically advanced anti-cavitation design in the industry, the Valtek DiamondBack uses staged pressure drops to eliminate cavitation, even in the most demanding services.

- Reduced maintenance and long service life assured by cavitation-eliminating design, which minimizes damage, even in the most difficult applications
- Low cost of ownership and extended service life from erosion-minimizing design
- Even greater service life with optional tungsten carbide trim that also minimizes damage from erosion
- Quick and easy maintenance enabled by easy-to-clean stacked disc design

SPECIFICATIONS

Base Valve: Valtek Mark Series
 Sizes: DN 40 to 400; NPS 1½ to 16
 K_v (C_v) Range: 2 to 1773 (3 to 2050)
 Flow Direction: Over the plug
 Pressure Stages: 3 to 6
 Refer to literature VLENBR0005 at /library.



Valbart

CAVITATION ELIMINATION

SideWinder

SideWinder is a unique solution that delivers durable multi-stage cavitation elimination and precision control in high pressure drop, small flow applications.

- Reduced maintenance and extended service life assured by cavitation-eliminating design, even in the most difficult applications.
- Capable of eliminating cavitation in high pressure drop, small flow applications.
- Capable of tolerating small particulate.
- Axial flow design with low clearance flow for precise control at low openings.

SPECIFICATIONS

Base Valve: Valtek Mark Series
 Sizes: DN 15 to 100; NPS ½ to 4 K,
 C_v Range: 0.078 to 8.425
 (0.09 to 9.74)
 Flow Direction: Over the Plug
 Pressure Stages: 5 to 18
 Refer to literature FCENBR0068 at /library.

По вопросам продаж и поддержки обращайтесь:

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