valstroke™

High Pressure, high performance valve designed and tested to API 6A standards.

GATE VALVE SERIES

Non Rising Stem Gate Valve

Features:

- Metal Seated between body and bonnet
- Backseat seal between stem and bonnet
- Hard surface or anti-corrosion & wear resistance sealing
- Open or Close indicator shows the state of the valve
- Low operating torque

Specifications:	
Design:	API 6A
Size Range:	1-13/16" up to 7-1/16"
Working Pressure:	2,000 to 20,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Gate:	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Stem:	Stainless Steel
Seat:	Alloy Steel, Stainless + HF, Stainless + QBQ
End Connection	Flange, Threaded, Union, BW

Rising Stem Gate Valve

(with or without balancing stem)

With Balancing Stem

Features:

- Metal Seated between body and bonnet
- Backseat seal between stem and bonnet
- Hard surface or anti-corrosion & wear resistance sealing
- Low operating torque
- Designed for high pressure applications

Specifications:	
Design:	API 6A
Size Range:	1-13/16" up to 7-1/16"
Working Pressure:	2,000 to 20,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Gate:	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Stem:	Stainless Steel
Seat:	Alloy Steel, Stainless + HF, Stainless + QBQ
End Connection	Flange, Threaded, Union, BW

Actuated Gate Valve

Features:

- Hydraulic or Pneumatic Actuated
- Metal Seated between body and bonnet
- Backseat seal between stem and bonnet
- Hard surface or anti-corrosion & wear resistance sealing
- Low operating torque
- Designed for high pressure applications

Specifications:	
Design:	API 6A
Size Range:	1-13/16" up to 7-1/16"
Working Pressure:	2,000 to 20,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Gate:	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Stem:	Stainless Steel
Seat:	Alloy Steel, Stainless + HF, Stainless + QBQ
End Connection	Flange, Threaded, Union, BW

Hydraulic
Actuated Gate Valve

Pneumatic
Actuated Gate Valve

Surface Safety Valve

Non Rising Stem Gate Valve

Features:

- Reverse Acting Gate
- Option of Pneumatic, Diaphragm, Hydraulic Actuation
- Intergradable to DCS System
- Metal Seated between body and bonnet
- Hard surface or anti-corrosion & wear resistance sealing

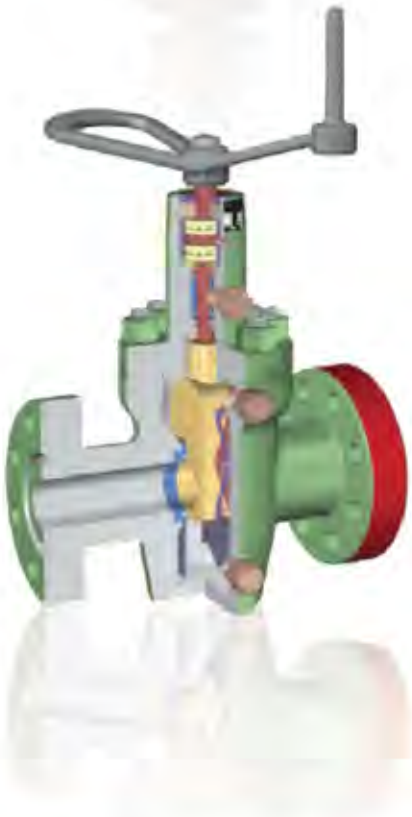
Specifications:	
Design:	API 6A
Size Range:	1-13/16" up to 7-1/16"
Working Pressure:	2,000 to 20,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Gate:	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Stem:	Stainless Steel
Seat:	Alloy Steel, Stainless + HF, Stainless + QBQ
End Connection	Flange, Threaded, Union, BW

Expanding Gate Valve

Features:

- Metal Seated between body and bonnet
- Hard surface or anti-corrosion & wear resistance sealing
- Designed for high pressure applications

Specifications:	
Design:	API 6A
Size Range:	1-13/16" up to 7-1/16"
Working Pressure:	2,000 to 20,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Gate:	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Stem:	Stainless Steel
Seat:	Alloy Steel, Stainless + HF, Stainless + QBQ
End Connection	Flange, Threaded, Union, BW



Slurry Gate Valve

Features:

- Specially designed for high pressure slurry flow
- Easy to operate
- Reliable and fast shutdown during emergency

Specifications:	
Design:	API 6A
Size Range:	2" up to 5"
Working Pressure:	3,000 to 5,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Disc:	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Seat	Option of Steel or Rubber core
End Connection	Flange, Threaded, Union, BW

Applications: Widely used in mud flow line during oilfield drilling activities.

Check Valve

Features:

- Wear & Scour Resistance
- Reliable performance

Specifications:	
Design:	API 6A
Size Range:	2-1/16" up to 7-1/16"
Working Pressure:	2,000 to 20,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Disc	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Seat:	Stainless Steel
Seat:	Option of Steel or Rubber core
End Connection	Flange, Threaded, Union, BW

Applications: Wellhead Flow Control in oil and gas production

CHOKE VALVE SERIES

Adjustable Needle Choke Valve

Features:

- Options of Manual, Hydraulic or Pneumatic Operated.
- Wear & Scour Resistance
- Reliable performance
- Needle design flow controlling system

Specifications:	
Design:	API 6A
Size Range:	2-1/16" up to 7-1/16"
Working Pressure:	2,000 to 20,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Choke Head:	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Choke Threaded Sleeve:	Stainless Steel
Seat:	Alloy Steel, Stainless + HF, Stainless + QBQ
End Connection	Flange, Threaded, Union, BW

Applications: Wellhead Control or wellhead manifold in oil and gas production

Adjustable Barrel Choke Valve

Features:

- Options of Manual, Hydraulic or Pneumatic Operated.
- Wear & Scour Resistance
- Reliable performance
- Machined from Metal Block

Specifications:	
Design:	API 6A
Size Range:	2-1/16" up to 7-1/16"
Working Pressure:	2,000 to 20,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Choke Head:	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Choke Threaded Sleeve:	Stainless Steel
Seat:	Alloy Steel, Stainless + HF, Stainless + QBQ
End Connection	Flange, Threaded, Union, BW

Applications: Wellhead Flow Control in oil and gas production

Positive Choke Valve

Features:

- Wear & Scour Resistance
- Reliable performance

Specifications:	
Design:	API 6A
Size Range:	2-1/16" up to 5-1/8"
Working Pressure:	2,000 to 20,000PSI
Working Temperature:	K, L, P, R, S, T, U, V
Performance Specification Level:	PSL1, PSL2, PSL3, PSL4
Performance Requirement Level:	PR1, PR2
Material:	AA, BB, CC,DD, EE, FF
Body:	Carbon Steel, Alloy Steel, Stainless Steel
Choke Head:	Carbon Steel, Alloy Steel, Stainless Steel + HF, Stainless + QBQ
Choke Threaded Sleeve:	Stainless Steel
Seat:	Alloy Steel, Stainless + HF, Stainless + QBQ
End Connection	Flange, Threaded, Union, BW

External Sleeve Adjustable Choke Valve

Nozzle Bean Selection Table

Equivalent Orifice DIA. (Bean Size)	20	32	48	64	80	96	112	128	144	160
Orifice Area (in²)	0.077	0.196	0.442	0.785	1.227	1.767	2.405	3.142	3.976	4.909
CV* Values	1.4	3.7	8.3	14.8	23.2	33.3	45.4	59.3	75.0	92.6
2" FB 3" RB		●	●	●						
3" FB 4" RB			●	●	●	●	●			
4" FB 6" RB					●	●	●	●	●	●
6" FB 8" RB							●	●	●	●

Equivalent Orifice DIA. (Bean Size)	176	192	208	224	240	256	272	288	304	
Orifice Area (in²)	5.940	7.069	8.296	9.621	11.0447	12.57	14.1863	15.90	17.72	
CV* Values	112.1	141	166	192	221	251	284	318	354	
2" FB 3" RB										
3" FB 4" RB										
4" FB 6" RB	●	●								
6" FB 8" RB	●	●	●	●	●	●	●	●	●	

*CV values listed above are the approximation for each bean size and may vary for different valve configurations.

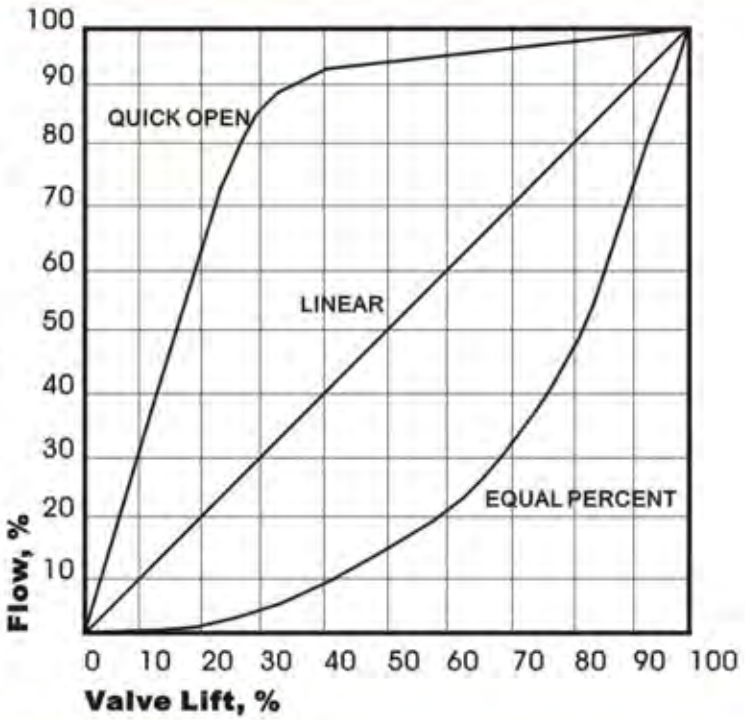
Trim Configuration

The three basic types of flow characteristics are quick opening, linear, and equal percentage.

Controllability of a valve throughout its range is maximized with equal percent trim. This trim meat the precise control requirements at low set points, yet still offers overall flow capacity.

The linear configuration provides good control in the upper range but suffers from poor control in the lower region.

Quick opening trim is only suitable for use at the upper end of its travel.



NPS		H	
		Close	Open
FB	RB	in mm	in mm
2"	3"x2"	12.80 325	13.70 348
3"	4"x3"	15.75 400	17.32 440
4"	6"x4"	19.10 485	21.06 535
6"	8"x6"	24.5 622	27.48 698

NPS	2"		3"		4"		6"	
	L	A	L	A	L	A	L	A
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
	7.00 178	13.78 350	7.25 184	13.78 350	8.25 210	13.78 350	10.00 254	17.72 450
	7.25 184	13.78 350	7.63 194	13.78 350	8.75 222	13.78 350	10.38 264	17.72 450
	7.63 194	13.78 350	8.25 210	13.78 350	9.5 241	17.72 450	11.38 289	17.72 450
	8.75 222	13.78 350	8.75 222	13.78 350	10.00 254	17.72 450	12.25 311	23.62 600
	8.75 222	13.78 350	9.5 241	13.78 350	10.38 264	17.72 450	13.50 343	23.62 600
	10.00 254	13.78 350	11.38 289	13.78 350	13.00 330	17.72 450	17.25 438	23.62 600
	7.63 194	13.78 350	8.25 210	13.78 350	9.5 241	17.72 450	11.38 289	17.72 450
	8.75 222	13.78 350	8.75 222	13.78 350	10.00 254	17.72 450	12.25 311	23.62 600
	8.75 222	13.78 350	9.5 241	13.78 350	10.38 264	17.72 450	13.50 343	23.62 600

NPS	3"x2"		4"x3"		6"x4"		8"x6"	
	L	A	L	A	L	A	L	A
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
	7.25 184	13.78 350	8.25 210	13.78 350	10.00 254	13.78 350	13.5 343	17.72 450
	7.63 194	13.78 350	8.75 222	13.78 350	10.38 264	13.78 350	13.88 352.5	17.72 450
	8.25 210	13.78 350	9.5 241	13.78 350	11.38 289	17.72 450	15.00 381.0	17.72 450
	8.75 222	13.78 350	10.00 254	13.78 350	12.25 311	17.72 450	16.12 410	23.62 600
	9.5 241	13.78 350	10.38 264	13.78 350	13.50 343	17.72 450	18.13 460	23.62 600
	11.38 289	13.78 350	13.00 330	13.78 350	17.25 438	17.72 450	22.25 565	23.62 600
	8.25 210	13.78 350	9.5 241	13.78 350	11.38 289	17.72 450	15.00 381.0	17.72 450
	8.75 222	13.78 350	10.00 254	13.78 350	12.25 311	17.72 450	16.12 410	23.62 600
	9.5 241	13.78 350	10.38 264	13.78 350	13.50 343	17.72 450	18.13 460	23.62 600

Equipment Integrity & Customer Satisfaction

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