



**High End
Technology**

**Tight
Shutoff**



Reliability

**Expertise you
can trust**

**VFLO High Performance
V-Ball Control Valves**





VFLO Design Features

- Heavy duty industrial design
- High Cv capacity
- High rangeability (300:1)
- Shearing action of ball ideal for slurries
- Low break out torque
- Metal seat – class IV shutoff
- Soft seat – class VI shutoff
- High torque actuator
- Wide range of alloys
- Pressure ratings upto ANSI CL900

Quality Assurance

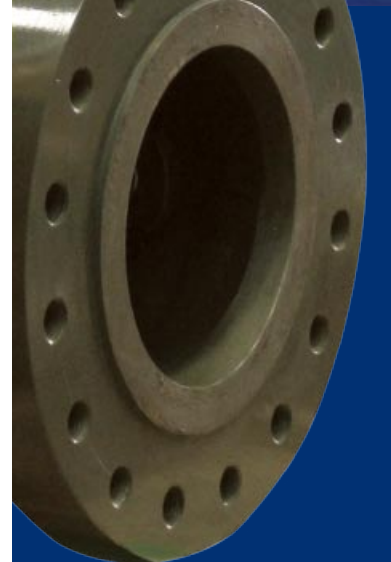
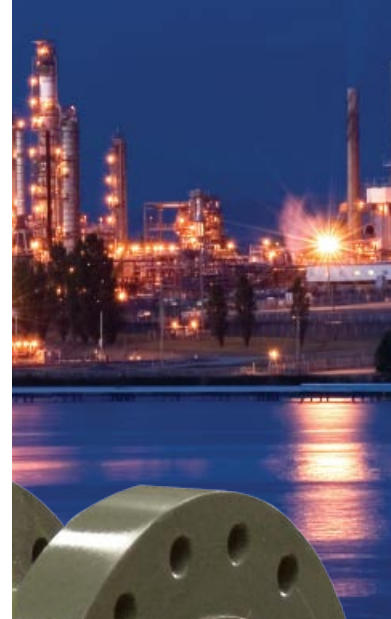
- ISO 9001
- Hydrostatic test to ASME B16.34
- Seat leak test to ASME / FCI 70-2

Ease of Maintenance

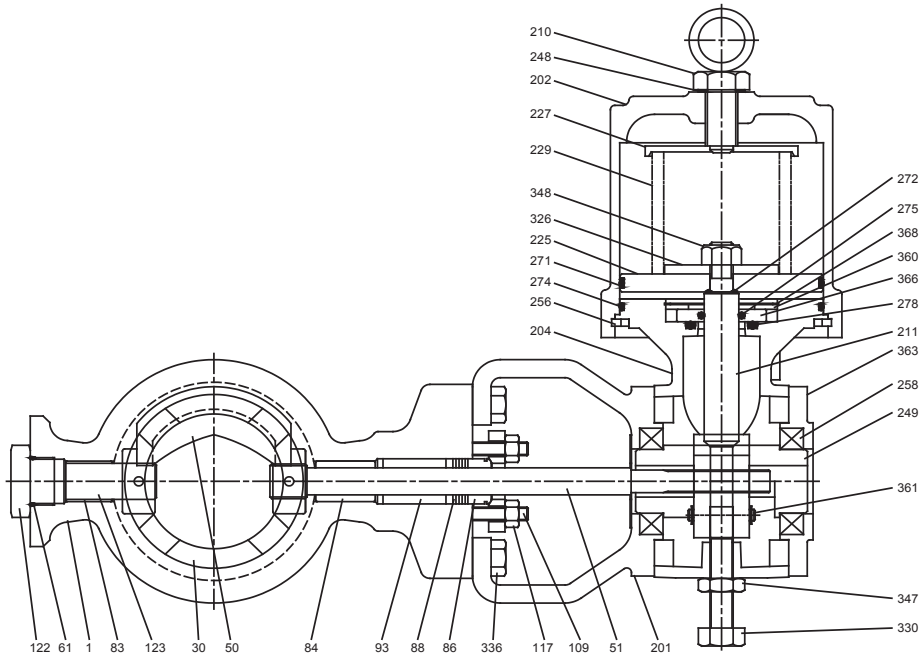
- Minimal spare parts requirements
- High degree of interchangeability between valve sizes and pressure ratings
- Actuators are field reversible from fail closed to open and vice versa
- 3 actuator sizes typically cover 95% of all actuator requirements for both fail open and fail closed

Specification

Body type:	One-piece segmented V notch ball
Size:	0.5" to 18.0"
Pressure class:	ANSI CL150 to ANSI CL600
Body material:	All castable alloys
End connections:	Flangeless, flanged (integral and separable flange)
Gland packing:	PTFE, braided PTFE, grafoil
Seat ring:	Clamped-in, self aligned
Shaft:	Splined-no lost motion or dead band
Characteristics:	Equal percentage, linear and quick open
Actuator:	Rotary spring cylinder; fully field reversible
Positioner:	High performance analogue & digital



VFLO Components



Item No.	Part Name	227	Spring Button
		229	Spring
1	Body	248	Gasket, Adjusting Screw
30	Seat Retainer	249	Lever Arm
50	Ball	256	Retaining Ring, Cylinder
51	Shaft	258	Bearing, Lever Arm
61	Adapter O-ring	271	Piston O-ring
83	Bearing, Post	272	Piston Stem O-ring
84	Bearing, Shaft	274	Cylinder O-ring
86	Follower Packing	275	Actuator Stem O-ring
88	Packing Set	278	Base Slider O-ring
93	Packing Spacer	326	Spring Guide
109	Packing Box Stud	330	Stroke Stop Bolt
117	Packing Box Nut	336	Yoke Bolt
122	Plug, Hex. Head	347	Stroke Stop Jam Nut
123	Post	348	Actuator Stem Locknut
201	Yoke	360	Sliding Seal Top Clamp
202	Cylinder	361	Pivot Pin
204	Transfer Case	363	Cover Plate
210	Adjusting Screw	366	Sliding Seal Coller
211	Actuator Stem	368	Spiral Retaining Ring
225	Piston		



GFLO

High Performance Single Seated Globe Control Valve

Body type: 2way, 3way, angle & jacketed
 Size: 0.5" to 30.0"
 Pressure Class: . . . Up to ANSI CL 4500
 Body Material: . . . All castable alloys
 End Connections: . Flanged, screwed, butt and socket welded
 Bonnet: Standard, extended, cryogenic & bellow sealed
 Guiding: Heavy duty double top stem
 Gland Packing: . . . PTFE, braided PTFE, grafoil, low fugitive emission
 Gaskets: PTFE, spiral grafoil
 Seat Ring: Clamped-in, self aligned
 Plug: Solid one piece construction with large stem diameter
 Characteristics: . . . Equal percentage, linear and on-off
 Rangeability: 50:1
 Special Trims: . . . CAVFLO, MEGAFLO, GFLO VC
 Actuator: Linear spring cylinder, fully field reversible
 Air Pressure: 2.0 to 10.0 Bar
 Shut off class: . . . With metal seat - ANSI IV or V and replaceable soft seat - ANSI VI



VFLO

High Performance V-Ball Control Valve

Body type: One-Piece VFLO Ball, straight-through
 Size: 0.5" to 18.0"
 Pressure Class: . . . Up to ANSI CL 900
 Body Material: . . . All castable alloys
 End Connections: . Flangeless, flanged (integral and separable flange)
 Gland Packing: . . . PTFE, braided PTFE, grafoil
 Seat Ring: Clamped-in, self aligned, bi-directional
 Ball: Segmented V-notch ball, reduces clogging, shearing action fibrous fluids
 Shaft: Splined-No lost motion or dead band
 Characteristics: . . . Equal percentage, linear and on-off
 Rangeability: 300:1
 Actuator: Rotary spring cylinder, fully field reversible
 Air Pressure: 2.0 to 10.0 Bar
 Shut off class: . . . With metal seat - ANSI IV and replaceable soft seat - ANSI VI



DISKFLO

High Performance Wafer style Butterfly Control Valve

Body type: Wafer, light in weight, provides large flow and minimum pressure drop
 Size: 2.0" to 42.0"
 Pressure Class: . . . Up to ANSI CL 1500
 Body Material: . . . All castable alloys
 End Connections: . Wafer, lugged, flanged
 Gland Packing: . . . PTFE, braided PTFE, grafoil
 Seat Ring: Clamped-in, self aligned
 Disc: Double eccentric cammed
 Shaft: Splined no lost motion or dead band
 Characteristics: . . . Equal percentage, linear and on-off
 Actuator: Rotary spring cylinder, fully field reversible
 Shut off class: . . . With metal seat - ANSI IV and replaceable soft seat - ANSI VI



SEVERE SERVICE

Cavitation, Noise Abatement, Velocity Control Trim

Body type: 2way, angle & jacketed
 Size: 0.5" to 30.0"
 Pressure Class: . . . Up to ANSI CL 4500
 Body Material: . . . All castable alloys
 End Connections: . Flanged, screwed, butt and socket welded
 Bonnet: Standard, extended, cryogenic & bellow sealed
 Guiding: Heavy duty double top stem
 Gland Packing: . . . PTFE, braided PTFE, grafoil, low fugitive emission
 Gaskets: PTFE, spiral grafoil filled SS
 Seat Ring: Clamped-in, self aligned
 Plug: Solid one piece construction with large stem diameter
 Characteristics: . . . Equal percentage, linear and on-off
 Actuator: Linear spring cylinder, fully field reversible
 Air Pressure: 2.0 to 10.0 Bar
 Shut off class: . . . With metal seat - ANSI IV or V and replaceable soft seat - ANSI VI

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