

ViNtrol Product Summary & Capabilities

ViNtrol, Inc.



Proven Performance • World Class Products

Proven Field Performance, World Class Valve Products

ViNtrol, Inc. is a growing manufacturer of flow control products tailored to meet the needs of various industry requirements with primary focus within the oil and gas industry. ViNtrol, Inc. provides one of the most comprehensive lines of valve product offerings to accommodate and service the Upstream, Midstream and Downstream market segments. ViNtrol continues to make strides in elevating our company beyond industry standards and customer expectations by consistently providing superior quality, maintaining expansive inventory levels, and being immediately responsive to customer needs.



ViNtrol Headquarters, Oklahoma City, OK, USA

Custom Engineered and Off-the-Shelf Solutions

While Off-the-Shelf inventory has been a key factor to the growth of ViNtrol, our Sales and Engineering teams are ready to provide engineered solutions customized to meet your needs. Ranging from Single Source Fully Automated Valve packages, Metal-to-Metal Sealing, Stem Extensions, Coatings, Off-the-Shelf Upgrades and Built-to-Order, ViNtrol has the right valve for your application requirements. ViNtrol's vast expertise in valve manufacturing is backed by a management team with over 100 years experience collectively serving the oil and gas industry.



Worldwide Support

ViNtrol's global reach is extended further as a subsidiary to International Operations abroad. ViNtrol and its parent company have a vast network of locations worldwide including the United States, India, Dubai, Singapore, Italy, Australia and the United Kingdom for delivery enhancement and unequalled customer service.

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Experience the ViNtrol Difference

It All Starts With ViNtrol's State-of-the-Art Facility and Extensive Product Offering

ViNtrol's approximately 86,000 square foot facility in Oklahoma City, OK, maintains over 71,000 square feet for product assembly, product testing, valve automation, valve enhancements and product upgrades to meet our customer's needs. Not to mention, ViNtrol's expansive inventory and our bold commitment to stock valve sizes ranging from 1/4" thru 36" diameter.



ViNtrol's product offering includes a full line of Trunnion Ball Valves, Floating Ball Valves, API 6D Flanged Check Valves, Wafer Style Swing Check Valves, Severe Service & Metal Seated Ball Valves, Commodity Ball and Check Valves, API 6A Gate Valves, Needle Valves, Chokes and Actuators.



World Class Customer Service:

It begins with the craftsmanship and expertise of our seasoned technicians, state-of-the-art facility, Quality Assurance and customized solutions to successfully complete your project.

Raising the Bar

When it comes to providing unequalled customer service and delivery performance, ViNtrol has raised the bar. Our knowledgeable sales team, skilled staff and manufacturing personnel are ready to tackle your most challenging valve requirements.

ViNtrol strives to provide a simple made-to-order solution to effectively provide a safe, reliable, and leak free valve to meet even the most extreme application needs in the field.

Whether you choose from ViNtrol's standard product line or your project requires a customized solution, ViNtrol can solve your toughest challenges. All ViNtrol valve products are field tested and approved even in the harshest of environments.



Quality Assurance Every Step of the Way

Quality Facilities

ViNtrol World Class products are manufactured in Vintrol's state-of-the-art facilities that uphold the highest industry conformance and certification standards. All ViNtrol facilities maintain ISO 9001 Certification and licenses operating under API 6A/PSL4 and API 6D.



Design & Testing Standards

- Valve Face-to-Face
API 6D, ASME B16.10
- Valve Bore API 6D
- Valve Butt-weld Ends ASME 16.25
- Valve Flange Dimension ASME 16.5
- Valve/Actuator Top Pad ISO 5211
- Drain/Vent/Bypass API 6D/MSS-SP45
- Castings as Per
MSS-SP 53, 54, 55, 59, 93, 94
- Pressure Tests
API 6D/API 598/BS 6755 Part I
- Fire Safe Test
API 607/API 6FA/BS 6755 Part II
- NACE Compliance MR-01-75
- Quality System ISO 9001:2000/API Q1
- Fugitive Emission Qualifications
TA-Luft/US Clean Air Act & MESC

Note: Additional testing methods available upon customer request including fugitive emission, cryogenic, high pressure nitrogen/gas, vacuum, sulphide stress cracking & hydrogen induced cracking testing.

Certifications

The ViNtrol facility has achieved ISO 9001 certification, ISO 9001:2000, APIQR Registration No. 0863; API Specification, Q1, Registration No. Q1-0615; ISO/TS 29001, Registration No. TS-0439; API Specification 6A, Certificate No. 6A-0930, and API Specification 6D, Certificate No. 6D-0850.



Series VT2 and VT3 Trunnion Ball Valves

Cast and Forged Steel Trunnion Mounted Ball Valves

ViNtrol offers a complete line of two and three-piece trunnion mounted ball valves available as cast or forged bodies in carbon steel, low temp, stainless steel and duplex materials for petroleum, industrial and oil & gas applications. All Series VT2 and VT3 Trunnions come standard NACE certified and can be fitted with GOPs, pneumatic and hydraulic actuation upon ordering to ideally suit your application requirements.



Series VT2 & VT3

- Sizes Range 2" thru 56" (Non-Domestic) and 2" thru 16" (Domestic) in ANSI Pressure Class 150 thru Class 2500
- Also Available in 2" thru 4" API 6A 2000, 3000 and 5000 psi
- NACE Conformance Standard

Key Design Features:

- Fire Safe NACE as Standard
- Blowout Proof Stem
- Double Block and Bleed
- Double Sealed at all Pressure Connections
- Sealant Injection Fittings with Buried Check Valves
- Antistatic Construction
- Available in Carbon Steel, Low Temp, Stainless and Duplex Materials
- Standard ISO 5211 Mounting for Ease of Actuation
- Conforms to API 6D/ANSI B16.34 Requirements and Demanding Service Conditions

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Series VT3

Series VT2
Weld x Flange



ViNtrol's Series VT2 and VT3 trunnion ball valves are available in weld x weld, weld x flange and flange x flange end configurations. Gear operators and pneumatic or hydraulic actuation is available.



Series VT3
with Series 21
Actuator

API 6D Flanged and Threaded Floating Ball Valves

Optimal Sealing for Industrial and Corrosive Applications

ViNtrol's flanged floating ball valves feature bubble tight seat sealing at high and low pressures with excellent torque performance. Loss of seat insert results in metal-to-metal sealing for firesafe reliability. External stem lube fitting and vented weather seals ensure effective stem journal lubrication and protection from external corrosion/contamination.



Series A & Series B

ViNtrol Series A and Series B ball valves feature two-piece bolted and threaded body/adapter connection in ductile iron, carbon steel and stainless steel materials with threaded end or socketweld end connections ranging in sizes from 1" FP thru 4" FP and pressure classes up to 5000 psi.



Series A Ball Valves
With Threaded Body Adapter

Series VF

ViNtrol Series VF ball valves feature two-piece bolted, carbon and stainless steel NACE and Firesafe standard construction. Our resilient and metal-to-metal seat solutions provide bubble tight performance and full pressure range sealing with excellent torque performance.

Sizes range from 1" thru 8" (Non-Domestic) and 2" thru 4" (Domestic) in ANSI Pressure Class 150 thru Class 1500.

Key Design Features:

- Firesafe NACE as Standard
- Available in Full and Reduced Port Configurations
- Firesafe and Blowout Proof Backseated Stem
- External Stem Lubrication and Vented Weather Seal for Maximum Protection
- Delrin® Seats in Class 600 and Higher
- RTFE Seats in Class 150 and Class 300
- Ball Includes Pressure Equalization Hole
- SS Trim for Corrosion Protection
- Standard Locking Handle



Series B Ball Valves
With Bolted Body Adapter



Series VF Flanged
End Ball Valves

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Threaded, Wafer and Flanged Swing Check Valves

High Performance Check Valves

ViNtrol Series 35 flanged swing check valves feature Shaft Style Full Open design with bubble tight performance and are available in resilient and metal-to-metal sealing. Offered in standard NACE construction and Firesafe design with replaceable seats. Sizes range from 2" thru 16" (Non-Domestic and Domestic) in ANSI Pressure Class 150 thru 1500.

Shaft style construction provides for a complete range of external options including lock-open, spring close and water hammer prevention.



Ductile Iron Valves

ViNtrol's rugged threaded end ductile iron valves are available in sizes 1" thru 4" and pressures up to 2000 WOG. Trough style design eliminates leak path and provides for quick repair.

Key Design Features

- Series 35 Full Open Swing Type Check Valves are Piggable
- Bolted and Threaded Bonnet with Tap and Plug
- Replaceable SS Trim for Superior Corrosion Protection
- NACE Trim is Standard

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Threaded Swing Check Valves



Wafer Style Swing Check Valves



Series 35 API 6D Flanged Swing Check Valve (piggable)



Series 35 API 6A Flanged Swing Check Valve (piggable)

Metal Seated and Severe Service Ball Valves

Floating & Trunnion Ball Valves for Severe Service Applications

ViNtrol is pleased to offer our customers top of the line products for severe service applications. The ViNtrol Series MSF and MST ball valves have a wide range of applications including high temperature, fuel gas, steam isolation, bypass applications, refining, tar sands, slurries, pulp & paper, solids handling, vent & drain, mining, power and petrochemical facilities.



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- Sizes Range From 1/2" thru 36" ASME Classes 150 thru 2500

Key Design Features:

- **Metal Body Gasket:** Unique Self Energizing and Pressure Energizing Gasket Ensures Against Leakage During Thermal Transients
- **Integral Seat:** Our Integral Seat Design Eliminates a Potential Leak-path, While the Spring Ensures That the Ball Never Leaves its Mate-lapped Seat
- **Blow-out Proof Stem:** Large One-piece Machined, Hardened and Polished Stem is a True "Blow-out Proof" Design. There Are No Pins to Depend On. It is Easily Installed Through the Body Bore of the Valve.



Severe Service Valves



*Series MSF
(Cutaway Detail)*

Key Design Features

- Full Port Maximizes Flow and Reduces Clogging
- Bi-directional Sealing Capability
- Sharp Leading Edges of Seats Reduce Particle Build up Each Time the Ball is Operated
- Spring Energized Packing for Live Loading and Maintenance Free Service
- HVOF Tungsten Carbide Hard Facing Standard Trim (Additional Trim Materials Include Chrome Carbide, Stellite®, and Others)
- Ball and Seats are Mate-lapped for 100% Sealing Area Contact to Ensure Class VI Shut-off or Better
- Maximum Temperature for WCB 750°F (399°C) and CF8M 1000°F (538°C)

Series C Floating Ball Valves

High Quality Commodity Ball Valves

ViNtrol offers a complete line of unibody, two and three-piece floating ball valves in carbon, stainless steel and bronze for oil & gas and industrial applications. Our seal-welded ball valves offer optimum protection and leak path elimination for extreme applications. Valves are readily available in threaded and socketweld end configurations in 1/4" thru 2" sizes.



SERIES CU & CBS

- Series CU Sizes Range From 1/4" thru 2"
- Series CBS Sizes Range From 1/4" thru 4"
- Series CU Unibody Design Offers the Safety and Strength of Wrought Steel In a Large Port Configuration and in Pressures up to 2000 psi
- Series CBS Two-Piece Bronze Design Offers Pressures Up to 600 psi



Series CU



Series CBS,
Bronze Trim

Series CCS & CSS

- Sizes Range From 1/4" thru 2" in Pressures up to 2000 psi
- Seal-Welded Stainless Steel and Carbon Steel Full Port Ball Valve
- Manufactured to Meet the Requirements of ANSI B1.10.1, NACE MR0175, and Fire Safe



*Series CCS



*Series CSS

Series CH3 & CH6 High Pressure

- Conforms to NACE MR0175 and ANSI B16.34 as Standard
- Sizes Range From 1/2" thru 2" FP and RP in Pressures 3000 and 6000 psi
- Two-Piece LCC Low-Temp CS Construction
- 316 SS Ball and Stem
- Available with Threaded and Socket Weld End Connections
- Fire Tested & Certified to API 607 4th Addition

*Seal-Welded Feature

Series CCS, CSS, CH3 and CH6 feature seal-welded construction



*Series CH3



*Series CH6

Pneumatic Actuators

Actuation Products & Accessories

ViNtrol is pleased to offer top of the line products in flow control automation. Both ViNtrol Series 20 and 21 actuators are pneumatically operated and offer quarter turn valve automation. These actuators are built with several of the latest features that enhance safety and performance. The actuators are manufactured with state-of-the-art machinery and under a robust quality assurance system complying with ISO 9001:2000. Sizes range from 4500 thru 177,000 in-lbs.



Series 20

Key Design Features:

- Standard Mounting Pads
- Two Independent External Travel Stops Permit Easy and Precise Adjustment
- Modular Pre-loaded Spring Cartridges for Safe, Efficient Use of Actuator. Easy Field Conversion from Double Acting to Spring Return & Vice Versa
- Compact Modular Design for Double Acting and Spring Return Actuators
- Dual Rack & Pinnion Design
- Unique Position Indicator to Show Alternate Position. NAMUR Slot to Drive All Popular Sensors
- EN ISO 5211 Compliant. Accessory Mounting Complies With NAMUR VDI/VDE 3845

Series 20 Rack & Pinnion Pneumatic Actuator



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Series 21

Key Design Features:

- Standard Mounting Pads
- Inherently Safe, Spring Module to Provide Fail Safe Operation. Spring Pack Utilizes up to 2 Springs for High Torque. Fully Encapsulated in Factory Welded Cartridge Ensuring Safety
- Modular Construction Allows Interchanging of Spring Module and Cylinder
- Available With Jack Screw and Compact Hydraulic Manual Override

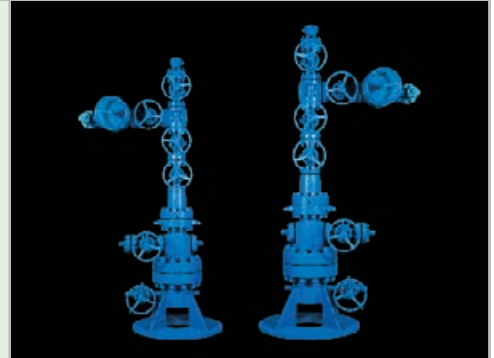
Series 21 Scotch Yoke Pneumatic Actuator



API 6A Gate Valves, Production Chokes and Needle Valves

Oil & Gas and Industrial Production Valves

ViNtrol offers gate valves in both expanding gate and slab gate styles. Both are compatible with the current industry standards and are available in a wide range of trims to suit the customer. Gate valves are available in sizes 1 13/16" thru 7 1/16" and working pressures from 2000 psi thru 15,000 psi. A complete line of flanged and threaded end connections are available.



Slab Style Gate Valves

- All Standard ViNtrol Gate Valves are Available "Prepped for Actuator"
- 2M-5M are Expanding Gate Style Providing a Positive Mechanical Seal for Bubble Tight Performance
- 10M-15M are Slab Gate Configuration for Universal Bi-Directional Sealing
- LU Temperature Class is Standard for -50°F to 250°F
- DD Trim As Standard for NACE Service Conditions
- API 6A Licensed and Monogrammed



Slab Style Gate Valve

Production Chokes

- Available in Positive and Adjustable Configurations
- Flanged sizes of 1 13/16" 10M, 2 1/16" 5M and 10M, and 2" LP Threaded
- Trim sizes include 3/4" and 1"
- Custom Built Flanged and Threaded Outlets for 2" Trim Chokes in ANSI and API Configurations
- Up to 10,000 psi.



Production Choke Valve

O-Ring Style Needle Valves

- Sizes 1/4" thru 1" NPT
- Available with Carbon Steel or Stainless Steel Body Material
- Soft and Metal Seated Options
- Up to 10,000 psi



O-Ring Style Angle Valve



O-Ring Style Needle Valve



Expanding Style Gate Valve with Actuator

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Custom Valve Modification Services

Single Source Automation:

- ViNtrol Series 20 Rack & Pinnion and Series 21 Scotch Yoke Actuator for Quarter Turn Valve Products
- ViNtrol Diaphragm and Piston Linear Actuator for API 6A Gate Valves and Chokes
- Complete Automated Valve Packages With a Variety of Options Available for Instrumentation & Controls

Stem Extension:

- Complete Fabricated Stem Extensions for Buried Service Applications
- High Head and Gear Mount Extensions with Fully Extended Lube Lines
- Welded and Threaded Lube Fitting Construction Available

Overlays and Coatings:

- 304SS, 316SS, 317SS, Inconel®, Hastelloy® and Monel®
- Nedox®
- Coal-Tar Set Epoxy
- Enduro-Bond™
- Xylan®
- E-Coat Ceramics



Cycle testing a Series VT3 24" FP Class 600 with pneumatic spring return actuator for ESD service at ViNtrol's Oklahoma City manufacturing facility.

Contact your ViNtrol customer service sales department for more information about custom modifications, or visit our website at www.vintrol.com

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PROVEN PERFORMANCE • WORLD CLASS PRODUCTS

5325 S.W. 36th Street
Oklahoma City, OK 73179-7802
Toll Free: 1-866-345-8298
Phone: 405-261-0770
Fax: 405-261-0774
www.vintrol.com

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