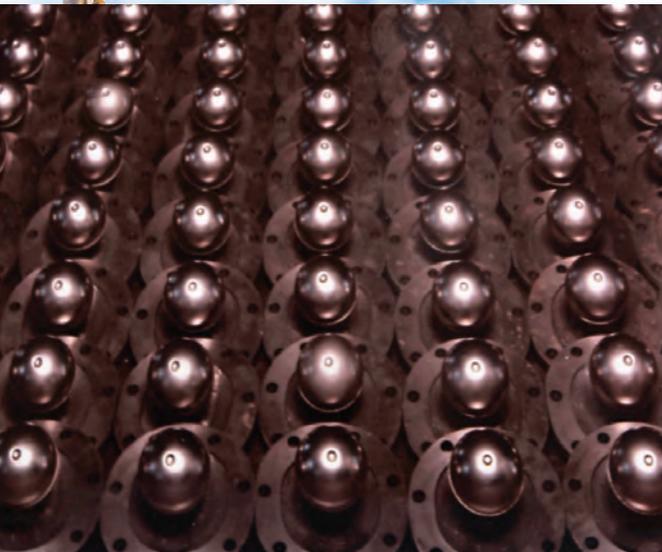


# VALMATIC®



*Quality Valves  
For Municipal  
and Industrial  
Applications*



*Your Valve Experts™*

[www.valmatic.com](http://www.valmatic.com)

*An Employee Owned Company*



# Our Mission & Core Values

The mission of Val-Matic is to be recognized as the leader in our industry by profitably providing products and services that always meet or exceed the needs of our customers as they relate to quality, cost, performance, dependability, operational features and delivery considerations.

## Val-Matic's Core Values

- Leadership
- Quality Products
- Continuous Improvement
- Loyalty



*Elmhurst, IL Facility*



*Addison, IL Facility*

# History of Growth

From humble beginnings in 1966 with a silent check valve product line, Val-Matic Valve & Mfg. Corporation has grown to become a leading manufacturer of fourteen valve product lines for the water and wastewater, industrial, commercial building construction, and plumbing industries. Customers and users include sales representatives, OEM's, distributors, general contractors, municipalities, private water companies, and a variety of industrial users. Val-Matic operates two manufacturing facilities in Illinois, has strong working relationships with several independent factories, and deploys sales and marketing resources across the globe.

# Dedication to Product Innovation

Val-Matic's success has been driven by manufacturing and product innovations to enhance reliability and quality; specific product features to meet the demands of diverse industries; and the development of a broad array of air valves (air vent valves), check valves, and quarter-turn valves. Backed by decades of product and application experience, Val-Matic continues to provide new developments in valve technology to serve industry through research and development. In 2014, Val-Matic completed a new 7,000 sq. ft. research and development facility in its manufacturing facility located in Addison, Illinois.

The R&D facility includes a Materials Lab with state of the art equipment for testing elastomers and metals to determine their mechanical properties when exposed to corrosive environments and elevated temperatures.



*Materials Lab*



*Flow Lab*

A Flow Lab equipped with a battery of water pumps is used to perform dynamic valve tests and water flow tests in a wide range of pressures and velocities to determine flow and torque characteristics of various valves. Valve test data is recorded and analyzed using a computer based data acquisition system. In addition, a 5,000 gallon air tank allows full scale air flow testing of large air valves.

The facility includes working models of pump control systems for use in technical hands-on training of industry professionals. Val-Matic is committed to developing superior quality products based on these expanded research and development resources.

# Quarter-Turn Valves



## Ener•G® Ball Valves

- AWWA C507 Size Range: 4" - 60"
- Pressure Range: Up to 300 PSI
- Tri-Loc™ Seat Retention System
- Self-Flushing Contoured Ball Design
- T316 Stainless Steel Uninterrupted Body Seat
- Field Adjustable/Replaceable Seat
- Double Seating Available
- Fusion Bonded Epoxy (FBE) Standard
- 100% Flow Area
- Equal Percentage Flow Characteristics



## American-BFV® Butterfly Valves

- AWWA C504/C516/C519 Size Range: 3" - 144"
- Pressure Range: Up to 300 PSI
- Tri-Loc™ Seat Retention System
- Field Adjustable/Replaceable Seat
- T316 Stainless Steel Uninterrupted Body Seat
- Tangential Taper Pins
- Fusion Bonded Epoxy (FBE) and Rubber Lining Available
- Proof of Design and Independently Flow Tested



## Cam-Centric® Plug Valves

- AWWA C517 Size Range: ½" - 72"
- Pressure Range: Up to 250 PSI
- Welded Nickel Seat
- Grit-Guard™ Shaft Seals
- Fully Rubber Encapsulated Plug
- Removable Cover for Full Top Access
- POP™ (Packing Overload Protection) Shims
- Fusion Bonded Epoxy (FBE), Glass and Rubber Lining Available
- Eccentric Action



## QuadroSphere® Ball Valves

- ASME B16.34 Size Range: 2 NPS - 48 NPS
- ASME Pressure Classes: 150-2500
- Forged Body and Ball Construction
- Stainless Steel Ball w/Hard Chrome Plating
- Self-Cleaning Seats
- Self-Flushing Contoured Ball Design
- Single Piston Effect Seating (DBB) Standard
- Double Piston Effect Seating (DIB) Available
- Ring Master® Seating System for Grit Service





## Swing-Flex® & Surgebuster® Check Valves

- AWWA C508 Size Range: 2" - 48"
- Pressure Range: Up to 300 PSI
- Fusion Bonded Epoxy (FBE) Standard
- Mechanical Indicator Available
- Welded Nickel Seat Available
- Bottom Mounted Oil Dashpot Available
- Glass and Rubber Lining Available
- Available in all Stainless Steel Construction
- Non-Slam Closing Action
- 100% Flow Area



## Silent Check & Sure Seal Foot Valves

- MSS SP-125 Size Range: ½" - 42"
- ASME Pressure Classes: 150-300
- Threaded, Wafer and Flanged Ends
- Silent, Non-Slam Closing
- Precision Metal-to-Metal Seating
- Resilient Seating Available
- Fusion Bonded Epoxy (FBE) Available
- Heavy Duty Spring Tested 100,000 Cycles



## Dual Disc® Check Valves

- AWWA C518 Size Range: 2" - 66"
- ASME Pressure Classes: 150-300
- Wafer, Lug and Grooved End Designs
- ASME 125, ISO PN10 and PN16 Flanges
- UL and FM Approved for Fire Protection
- Available for Air Service
- Cycle Tested 50,000 Cycles



## Tilted Disc® Check Valves

- ANSI Size Range: 4" - 66"
- ASME Pressure Classes: 125-300
- 2-Part Interior Epoxy Standard
- Top and Bottom Mounted Oil Dashpots Available
- Fusion Bonded Epoxy (FBE) Available
- Available in Carbon Steel Construction
- Energy Efficient with Ultra-Low Headloss
- Available w/Bypass Piping



## Swing Check Valves

- AWWA C508 Size Range: 2" - 48"
- Pressure Range: Up to 250 PSI
- Fusion Bonded Epoxy (FBE) Standard
- Full Domed Access Cover with Vent Port
- Bottom Oil Cushion Available
- Resilient and Metal to Metal Seating Available
- Closure Options: Lever & Weight, Air Cushion, Lever & Spring

# Air Valves & VaultSafe® Products



## Air Release Air Valves

- AWWA C512 Size Range: ½" - 6"
- Pressure Range: Up to 1000 PSI
- Clean Water and Wastewater Construction
- T316 Stainless Steel Trim and Float
- Unconditionally Guaranteed Floats
- Fusion Bonded Epoxy (FBE) Available
- Available in all Stainless Steel and Carbon Steel Construction



## Air/Vacuum Air Valves

- AWWA C512 Size Range: ½" - 20"
- Pressure Range: Up to 740 PSI
- Clean Water and Wastewater Construction
- T316 Stainless Steel Trim and Float
- Unconditionally Guaranteed Floats
- Fusion Bonded Epoxy (FBE) Available
- Available in all Stainless Steel and Carbon Steel Construction



## Combination Air Valves

- AWWA C512 Size Range: 1" - 20", Single or Dual Body
- Pressure Range: Up to 740 PSI
- Clean Water and Wastewater Construction
- T316 Stainless Steel Trim and Float
- Unconditionally Guaranteed Floats
- Available w/Regulated Exhaust Device
- Fusion Bonded Epoxy (FBE) Available
- Available in all Stainless Steel and Carbon Steel Construction



## FloodSafe® Inflow Preventers

- AWWA C514 Size Range: 1" - 16"
- Redundant Cross Contamination Control
- Stainless Steel Float and Outlet Screen
- ASSE Certified
- Field Testing Capability
- Adaptable to Existing Air Valve Applications



## FrostSafe® & VentSafe®

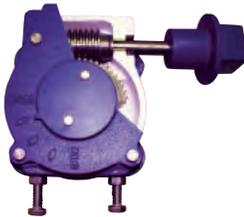
- Size Range: 4" - 12"
- Protects Vaults from Freezing
- Protects Vaults from Pests
- Provides 100% Flow Area
- 100% Corrosion Resistant Construction
- Compact Wafer Design Minimizes Space Requirements

## Traveling Nut Manual Actuators



- Manufactured in Accordance w/AWWA C504
- Externally Adjustable Stops Rated to 450 Ft-Lbs
- External Indication of Valve Position
- Stainless Steel External Stop Bolts
- Centralizing ACME Thread for High Efficiency
- FA10 Motor Mounting Flange for Ease of Automation

## Worm Gear Actuators



- Manufactured in Accordance w/AWWA C504
- Externally Adjustable Mechanical Stops Rated to 300 Ft-Lbs
- External Indication of Valve Position
- Bronze Radial Bearings
- Available for Above Ground, Buried Service and Submerged Applications

## Traveling Nut Cylinder Actuators



- Manufactured in Accordance w/AWWA C541
- Cylinder Bore Sizes Up to 24"
- Suitable for Air, Oil and Water Supply Media Up to 150 psig
- Available with Declutchable Hand Wheel Overrides
- Cylinder Available in All Stainless Steel and Non-Metallic Construction

## Electric Motor Actuators



- Manufactured in Accordance w/AWWA C542
- Various Operating Times
- Available with Non-Intrusive Enclosure
- Electric Power - 3PH, 1PH and DC Motors
- Adjustable Limit and Torque Switches
- Open/Close, Modulating and Throttling

## Actuator Accessories



- Extended Bonnets
- Torque Tubes and Floorstands
- Handlevers and Wrenches
- Limit Switches
- Position Transmitter
- Valve Positioner
- Filters and Regulators

# Control Systems



## Low Pressure Oil Accumulator Systems

- Size Range: 80-400 Gallon Capacity
- Pressure Range: Up to 125 PSI
- Equipped with Electrical Control Panels
- Compact Skid Design



## High Pressure Oil Accumulator Systems

- Size Range: 20-120 Gallon Capacity
- Pressure Range: Up to 2,500 PSI
- Equipped with Electrical Control Panels
- Compact Skid Design



## Hydraulic Control Panels

- NEMA 4X Waterproof and Corrosion Resistant Enclosures
- Supply Line with Isolation Valve and Pressure Gauge
- Corrosion Resistant Piping
- Reliable Brass Solenoid Valves and Multi-Turn Flow Control Valves



## Electric Control Panels

- NEMA 4X Waterproof and Corrosion Resistant Enclosures
- Plug-In Control Relays
- Emergency Stop Alarm Circuit
- Heavy-Duty Switches and Transformer Pilot Lights



## Hand Control Valves

- Brass Construction for 150 PSI Supply Pressure
- Panel Mounting
- 4-Position, 5-way Directional Valve
- Suitable for Air, Oil or Water Service

# Applications



Air Valves, Silent Check Valve and American-BFV® Butterfly Valves  
Princeton, IL



Ener•G® Ball Valve  
Johnson County, KS



Tilted Disc® Check Valve & American-BFV® Butterfly Valves  
Lexington, NC



Swing Check Valves  
Hendersonville, TN



QuadroSphere® Ball Valve  
Limestone, NY



American-BFV® Butterfly Valves, Tilted Disc® Check Valves, Combination Air Valves & Silent Check Valves  
Ontario, Canada



Cam-Centric® Plug Valves, Swing Check Valves & Combination Air Valves  
Winter Haven, FL



American-BFV® Butterfly Valve  
Sacramento, CA



Swing-Flex® Check Valves & Cam-Centric® Plug Valves  
Alberta, Canada

# Capabilities

## Engineering

Val-Matic employs degreed mechanical, environmental, and civil engineers in its sales support, production, and R&D departments. We have registered Professional Engineers (PE) with decades of product knowledge and experience that can assist in designing systems and processes in many industries. Our engineers have developed specialized design tools for sizing and locating air valves and estimating the energy savings associated with valve selection. Finally, our engineers are dedicated to improving the industry by participating in various roles on ASME, MSS, API and AWWA standards committees.



## Manufacturing

Val-Matic operates two manufacturing facilities in Illinois totaling 178,000 sq-ft. equipped with 10 and 20-ton overhead crane capacity and state of the art CNC Lathes, Horizontal Machining Centers, Vertical Machining Centers, and Multi-Axis Machining Centers capable of handling up to 72 in. valve components. Welding capabilities include four CNC Robotic Pulse-Arc Welding Cells. Two-Part Epoxy and thermostatically-applied FBE coatings are applied under controlled conditions. All valves are inspected with calibrated metrology equipment and hydrostatically tested with automated hydraulic test rigs to the applicable AWWA, MSS, and API standards. Advanced manufacturing technology is employed including Theory of Constraints Production Software, CMM Inspection, Robotics, Live Probing, Mastercam Programming, and Dedicated Manufacturing Cells. All of the manufacturing processes are certified by Lloyds Registry in accordance with the ISO 9001-2015 Quality Standard.



## Testing

Val-Matic's facility in Addison, Illinois contains a 7,000 sq. ft. state of the art research and development facility dedicated to providing new technology, products, and solutions to serve our industries. A materials lab is used for testing metals, coatings, and elastomers in various environments. A flow lab equipped with a series of water pumps and a data acquisition system is used to perform dynamic valve tests in a wide range of pressures and flows. A high pressure air system is used to perform full-scale testing of large air valves. The materials lab is equipped with a portable X-ray Fluorescence Analyzer (XRF) to identify the chemical composition of alloys and perform positive material identification (PMI) services.



## Project Management

Our project managers are trained and certified to deliver large projects on time and on budget. Project managers are degreed engineers that fully understand the technical requirements of project management and can offer solutions and strategies to minimize risk on large projects. They develop detailed project schedules and maintain continuous contact with the customer from the office or in the field as projects flow from the planning stages to the design and production stages.



## Field Support

Our team of field technicians can provide start-up, maintenance, and warranty services anywhere across the globe. Valves are often a part of a complex process or system requiring field adjustments and tuning for optimal performance. Field training can be provided so that the facility can maintain operation and preventative maintenance programs. Valve refurbishing can be accomplished in the field or in our factories when required.



# Design and Manufacturing Technology

Respected worldwide for quality products, Val-Matic utilizes the latest design and manufacturing technology coupled with close attention to industry requirements. The application of the latest product innovations while maintaining the highest quality products requires the seamless incorporation of advanced technologies in every step of design and manufacturing.



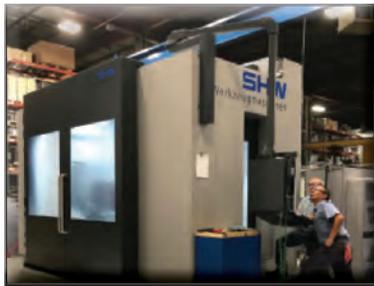
*Coordinate Measuring Machine provide 3D data*



*Computer-Controlled Robotic Welding Station*



*Computer Analysis using FEA and CFD Tehnology*



*Multi-Axis Machine Cells with Automatic Tool Calibration*



*Dual Hydraulic Test Stand*



*3-D Printer provides scaled prototypes and models*



*X-Ray Fluorescence Scanner provides Positive Material Identification (PMI)*



*Automated Electrostatic Fusion Bonded Epoxy Process*

## Commitment to Quality

Val-Matic is an employee-owned ISO 9001 certified company with products certified to applicable regulations and standards including NSF/ANSI 61 for drinking water and 372 Lead-Free; UL and FM for fire protection applications; and ASME, NACE, MSS, and API for other industries.

An experienced engineering staff takes a leading role in standard development organizations to keep published product standards current with industry innovations and user needs. Val-Matic engineers are leaders in the development of valve application software to assist users in selecting the right equipment for their fluid system.

Val-Matic's quality of design and meticulous workmanship have set the standard by which all others are measured. Val-Matic is totally committed to providing the highest quality products and services to its customers.



# VAL-MATIC®

*Your Valve Experts™*

Val-Matic Valve and Manufacturing Corp.  
905 Riverside Drive, Elmhurst, IL 60126  
Phone: (630) 941-7600 Fax: (630) 941-8042  
[www.valmatic.com](http://www.valmatic.com)  
[valves@valmatic.com](mailto:valves@valmatic.com)

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