ASSURED AUTOMATION

We Make **Valve Automation** Easy

Product Overview

ISO 9001:2015 Certified

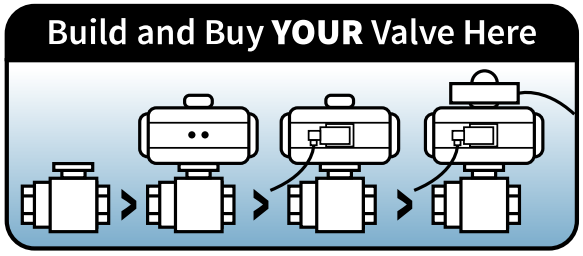
ITAR Compliant

assured**automation**.com

Why Choose Assured Automation?
Because We *Make it Easy!*

Quickly and Easily Specify a Complete Automated Valve Assembly

Use our interactive online configurators to quickly specify a valve assembly. Point and click to specify the valve size, end connections, actuator, and accessories. No need to size your actuator - we do it for you.



Wherever you see this image

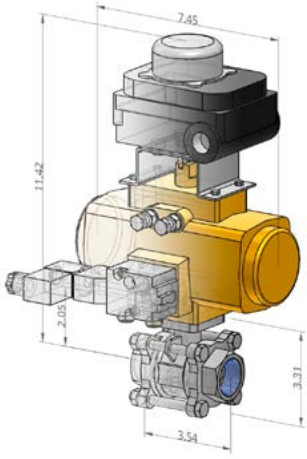
see video

Complete Assembly Specific Datasheets and CAD Files *ON DEMAND*

After you configure your complete assembly, you can instantly download a Datasheet and CAD model for THAT EXACT ASSEMBLY! These models include accessories such as solenoid valves, limit switches and positioners.

CAD Models
- Include accessories
- Interactive 3D viewer with dimensions right on the model
- Downloadable as native files for ALL major CAD platforms

Datasheets Include
- Complete specifications for each component
  materials, pressure/temperature curve, torques, C_V values
- Dimension drawing of complete assembly
- Embedded interactive 3D model
- Part numbers of each component and links to more info



see video

Standard Valves Available from Stock

Most of the offering of ball, butterfly, angle, and coaxial valves shown in this document are built using components we keep in stock. These valves are part of our **Quick-Ship** program. We can, however, source a customer preferred valve or source just about any type of valve for process applications. If you don't see the valve type that you need here, give us a call at **1-800-899-0553**.

Quick-Ship
PROGRAM
Built, Tested, Shipped **- Same Day**

Our Commitment to Quality

Since 1983, Assured Automation has been **Making Valve Automation Easy** for our customers. By focusing completely on valve automation, we have developed an unmatched expertise in the field, making us an invaluable resource. In addition to our standard offering of stocked components, we provide customers with special order and custom solutions to fit their unique applications. Easy selection of quality products is what our customers have come to expect — and what we strive to provide each and every time.

2-way Ball Valves (all available with manual, pneumatic, or electric actuator)

Basic On/Off Ball Valves

P2 Series

Body: PVC or CPVC; 3-piece; full port
End Connections: 1/2" to 4" NPT or glue socket
Seats: PTFE
Seals: EPDM or Viton®
Max. Pressure: 212 PSIG
Max. Temperature: 140˚F (PVC); 212˚F (CPVC)

250LF Series

Body: Lead free brass; 2-piece; full port
End Connections: 1/2" to 2" NPT
Seats: PTFE
Seals: PTFE
Pressure: 29 in-Hg to 600 PSIG (WOG) 150 PSIG (WSP)
Max. Temperature: 366˚F

36 Series

Body: 316 stainless steel; 3-piece; full port
End Connections: 1/2" to 4" NPT, SW, or Tri-clamp
Seats: RPTFE
Seals: RPTFE
Pressure: 29 in-Hg vacuum to 1000 PSIG
Max. Temperature: 380˚F

HPF Series

Body: Carbon or stainless steel; 3-piece; full port
End Connections: 1/2" to 4" NPT or socket weld
Seats: TFM or 50/50
Seals: TFM or graphite
Pressure: 29 in-Hg vacuum to 2250 PSIG
Max. Temperature: 550˚F (50/50); 450˚F (TFM)

101 Series

Body: Nickel plated brass; 2-piece; full port
End Connections: 3/8" to 3" NPT
Seats: PTFE
Seals: PTFE
Pressure: 29 in-Hg to 925 PSIG (lower for larger sizes)
Max. Temperature: 300˚F

26 Series

Body: 316 stainless steel; 2-piece; full port
End Connections: 1/4" to 3" NPT
Seats: RPTFE
Seals: RPTFE
Pressure: 29 in-Hg to 2000 PSIG (lower for larger sizes)
Max. Temperature: 400˚F

150F/300F Series

Body: Carbon or stainless steel; 2-piece; full port
End Connections: 1/2" to 8" ANSI flanged 150#/300#
Seats: TFM or 50/50
Seals: TFM or graphite
Pressure: 29 in-Hg to 275 PSIG (150#); 700 PSIG (300#)
Max. Temperature: 475˚F

XLB Series

Body: PFA lined ductile iron; 2-piece; full port
End Connections: 1/2" to 6" ANSI flanged 150#
Seats: PTFE
Seals: PTFE
Pressure: 29 in-Hg vacuum to 250 PSIG
Max. Temperature: 390˚F

Plug Valves (all available with manual, pneumatic, or electric actuator)

061 Series

Body & Plug: PFA lined ductile iron
End Connections: 1/2" to 4" ANSI flanged 150#
Seals: PTFE
Max. Pressure: 29 in-Hg vacuum to 250 PSIG
Temperature Range: -4˚F to 400˚F

067 Series

Body & Plug: Carbon or stainless steel
End Connections: 1/2" to 4" ANSI flanged 150#
Sleeve: PTFE
Seals: PTFE
Max. Pressure: 275 PSIG
Max. Temperature: 400˚F

3-way Ball Valves (all available with manual, pneumatic, or electric actuator)

"L" or "T" Ported Ball Valves

PTP Series

Body: PVC; full port
End Connections: 1/2" to 2" NPT or glue socket
Seats: PTFE
Seals: EPDM or Viton®
Max. Pressure: 140 PSIG
Max. Temperature: 140˚F

31D Series

Body: Brass; standard port
End Connections: 1/4" to 3" NPT
Seats: PTFE
Seals: PTFE
Max. Pressure: 400 PSIG
Max. Temperature: 320˚F

33D Series

Body: 316 stainless steel; full port
End Connections: 1/4" to 2" NPT
Seats: RPTFE
Seals: RPTFE
Max. Pressure: 800 PSIG
Max. Temperature: 400˚F

30D Series (Meets 3A standards)

Body: 316 stainless steel; full port
End Connections: 1/2" to 4" Tri-clamp
Seats: PTFE
Seals: PTFE
Max. Pressure: 1000 PSIG
Max. Temperature: 392˚F

MPF Series

Body: Carbon or stainless steel; full port
End Connections: 3/4" to 6" ANSI flanged 150#/300#
Seats: TFM
Seals: TFM & 50/50
Max. Pressure: 275 PSIG (150#); 700 PSIG (300#)
Max. Temperature: 475˚F

Need a Larger 3-way Valve?
3-way Tee Assemblies with Butterfly Valves Are Available as Special Order.
Call **1-800-899-0553**

Butterfly Valves (all available with manual, pneumatic, or electric actuator)

FE Series

Body: PVC; resilient seat
End Connections: 1 1/2" to 12" wafer flange
Seats: EPDM
Seals: EPDM
Max. Pressure: 232 PSIG
Max. Temperature: 140˚F

FK Series

Body: Polypropylene; resilient seat
End Connections: 1 1/2" to 12" wafer or lugged flange
Seats: EPDM or Viton®
Seals: EPDM or Viton®
Max. Pressure: 150 PSIG
Max. Temperature: 212˚F

ST Series

Body: Epoxy coated ductile iron; resilient seat
End Connections: 2" to 24" wafer or lugged flange
Seats: BUNA or EPDM
Seals: BUNA or EPDM
Max. Pressure: 225 PSIG (to 12"); 160 PSIG (14" & up)
Max. Temperature: 194˚F (BUNA); 230˚F (EPDM)

HP Series

Body: Carbon or stainless steel; high performance
End Connections: 2" to 24" wafer or lugged flange
Seats: RPTFE
Seals: RPTFE
Max. Pressure: 285 PSIG (150#); 740 PSIG (300#)
Max. Temperature: 450˚F

BFY Series

Body: 316 stainless steel
End Connections: 1/2" to 6" tri-clamp or butt weld
Seats: Silicone, EPDM, or Viton®
Seals: Silicone, EPDM, or Viton®
Max. Pressure: 110 PSIG (PVC)
Max. Temperature: 200˚F

XLD Series

Body: PFA lined ductile iron
End Connections: 2" to 12" wafer or lugged flange
Seats: PFA
Seals: PFA
Max. Pressure: 150 PSIG
Max. Temperature: 400˚F

Valve Actuators

Pneumatic Actuators

C Series

Mechanical Style: Dual rack and pinion
Operation: 90˚ Spring return or double acting
Housing: Aluminum body; powder coated end-caps
Supply Air Pressure: 30 to 120 PSI
Ports: 1/4" NPT in NAMUR pattern
Torque: up to 40,000 in/lbs.

P Series

Mechanical Style: Dual scotch yoke
Operation: 90˚ Spring return or double acting
Housing: Aluminum with corrosion resistant coating
Supply Air Pressure: 40 to 120 PSI
Ports: 1/8" Metric G; 1/4" Metric G on larger units
Torque: up to 25,600 in/lbs.

F Series

Mechanical Style: Dual rack and pinion
Operation: 90˚ Spring return or double acting
Housing: Epoxy coated Aluminum
Supply Air Pressure: 40 to 120 PSI
Ports: 1/4" NPT in NAMUR pattern
Torque: up to 59,000 in/lbs.

Electric Actuators

V4 Series

Operation: 90˚ On/Off or modulating
Housing: Epoxy coated Aluminum; NEMA 4/4X
Voltage: 12 or 24 VDC; 24, 120, or 220 VAC
Torque: 125 or 300 in/lbs.

R4 Series

Operation: 90˚ On/Off
Housing: Polycarbonate; NEMA 4/4X
Voltage: 12 or 24 VDC; 24, 120, or 220 VAC
Torque: 300 or 600 in/lbs.

K4 Series

Operation: 90˚ On/Off or modulating
Housing: Die-cast Aluminum alloy; NEMA 4/4X
Voltage: 120 VAC or 24 VDC
Torque: 174 to 8,680 in/lbs.

S4 Series

Operation: 90˚ On/Off or modulating; failsafe avail.
Housing: Anti-corrosive polyamide; NEMA 4/4X
Voltage: Universal Voltage.
Same actuator accepts 24 to 240 VAC/DC.
Supply voltage is automatically detected.
Torque: 170 to 2,600 in/lbs.

B7 Series

Operation: 90˚ On/Off or modulating; failsafe avail.
Housing: Epoxy coated Aluminum; NEMA 4/4X or NEMA 7
Voltage: 24 VDC; 120 VAC
Torque: 150 to 20,000 in/lbs.

Optional SR5 Spring Failsafe: Returns valve to specified fail position, OPEN or CLOSED, in the case of power failure.

Actuator Accessories

NAMUR Solenoid Valves

Function: 3-way 2-position or 3/4-way 2-position
Voltages: 12 or 24 VDC, or 24, 115, or 220 VAC
Coil/Enclosure Ratings: NEMA 4X or NEMA 7
Connectors: Cord-grip, potted, or NPT

Positioners

Pneumatic (3-15 psi) and electro-pneumatic (4-20 mA) models with or without feedback units

Limit Switches

YF
NEMA 4/4X; 2 SPDT Mechanical Switches

UA, UB, UC
NEMA 4/4X; 2 Solid State Proximity Switches

YE
NEMA 7; 2 SPDT Gold Contact Mechanical Switches

YO, YH
NEMA 7; 2 Solid State Proximity Switches

Compact, Fast-Acting, On/Off Valves

VA & VIP Series (2-way)

Body: Nickel plated brass
End Connections: 3/8" to 2" NPT (VA) G (VIP)
Seat: Viton®, EPDM, or BUNA
Seals: Viton®, EPDM, or BUNA (same as seat)
Max. Pressure: 150 PSIG
Max. Temperature: 176˚F (EPDM) 302˚F (Viton & BUNA)

VAX Series (2-way & 3-way)

Control Tube: 316 stainless steel
End Caps: Brass or 316 stainless steel
Non-wetted Center Body:
Alum. (pneumatic); Nickel plated steel (electric)
End Connections: 3/8" to 1" NPT
Seats: PTFE **Seals:** FPM
Max. Pressure: 600 PSIG
Max. Temperature: 140˚F

VIP-EVO (2-way)

Body: Black Anodized Aluminum (non-wetted)
End Connections: 3/8" to 2" NPT or G
Seat: PTFE with 15% glass fiber
Seals: Viton®, BUNA, or EPDM
Max. Pressure: 580 PSIG
Max. Temperature: 302˚F

J Series (2-way)

Body: Brass
End Connections: 3/8" to 1" NPT
Seat: BUNA or EPDM
Seals: BUNA or EPDM
Max. Pressure: 225 PSIG (N.C.) 150 PSIG (N.O.)
Max. Temperature: 176˚F (BUNA) 302˚F (EPDM)

Angle Seat Valves

Specifications

Body: Bronze or 316 stainless steel
End Connections: 3/8" to 2" NPT or Tri-clamp
Seats: PTFE
Seals: PTFE
Max. Pressure: 230 PSIG (steam to 150 PSIG)
Max. Temperature: 358˚F

Tested to over 5,000,000 Cycles

Features

- High cycle-life
- Integrated pneumatic actuator
- Optional NAMUR solenoid pad
- Fast valve actuation
- High C_V (flow coefficient)
- Compact assembly
- Actuator head rotates 360°
- Visual indicator
- Robust seat & stem design
- Competitive price

Applications

- Steam applications
- Keg cleaners
- Air drying equipment
- Sterilizers & autoclaves
- Process control applications
- Laundry equipment
- Textile dyeing & drying
- Bottling & dispensing equipment
- Ink & paint dispensing
- Industrial compressors

Available Switches

M2 - Two Mechanical Switches

PI - Two Solid State Switches

EX - Modulating Positioner

Manual Valves with Limit Switches

All ball, butterfly, and plug valves are available as manual valves with various limit switches. Below are the most commonly ordered manual valves with limit switches. They are all available to configure online.

Any of these Valves...

26 Series

36 Series

33D Series

150/300F Series

ST Series

With any of these Limit Switches...

UB Series

YF Series

YX Series

Manual Wedge Gate Valves

EWG Series (Economy)

Body: A 216 - WCB Carbon Steel
End Connections: 2" to 12" 150# ANSI Flanged
Trim: API Trim 8 (410 Hard)
Max. Pressure: 150 PSIG
Max. Temperature: 130˚F

DSI-WG (#37XUF)

Body: A 216 - WCB Carbon Steel
End Connections: 2" to 12" 150# ANSI Flanged
Trim: API Trim 8 (410 Hard)
Max. Pressure: 230 PSIG (steam to 150 PSIG)
Max. Temperature: 358˚F

Modulating Flow Control Valves (all available with pneumatic, or electric modulating actuator)

Globe Control Valves

GV Series Precision Globe Valves

Functions: 2-way control, 3-way Mixing & Diverting
Body: Bronze or stainless steel
End Connections: 1/2" to 2"; NPT or Butt Weld

GH Series High Capacity Globe Valves

Functions: 2-way control, 3-way Mixing & Diverting
Body: Cast iron
End Connections: 2 1/2" to 8"; 125# or 250# ANSI flanged

GVI Series Industrial Globe Valves

Functions: 2-way control
Body: Carbon steel or stainless steel
End Connections: 1/2" to 4" NPT, SW, ANSI flanged 150#/300#

V-Port Ball Valves

V Series

Body: Carbon steel or stainless steel; V-port
End Connections: NPT, SW, ANSI flanged, Tri-clamp
Seats: PTFE, TFM, or 50/50
Seals: TFM or graphite
Max. Pressure: varies with valve style
Max. Temperature: varies with valve style

FireChek® Heat Activated Pneumatic Shut-off Valves

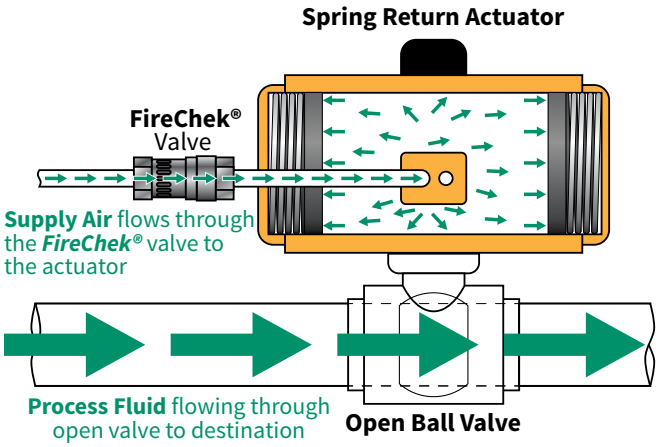
FireChek® Series
Heat Activated Pneumatic Shut-off

- Compact design is easily retro-fit
- Vents actuator and stops supply air
- Testable and resettable
- 3 trigger temperatures available
- Adds thermal shutoff to spring return actuators
- Configurations to function on any size actuator
- 1/4" NPT connections, 316 SS construction

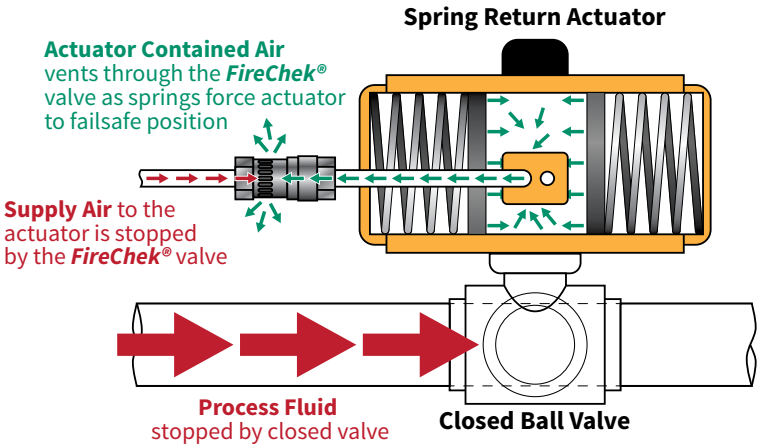
ASSURED AUTOMATION
Exclusive!




Normal Operation



Emergency Shutdown Triggered

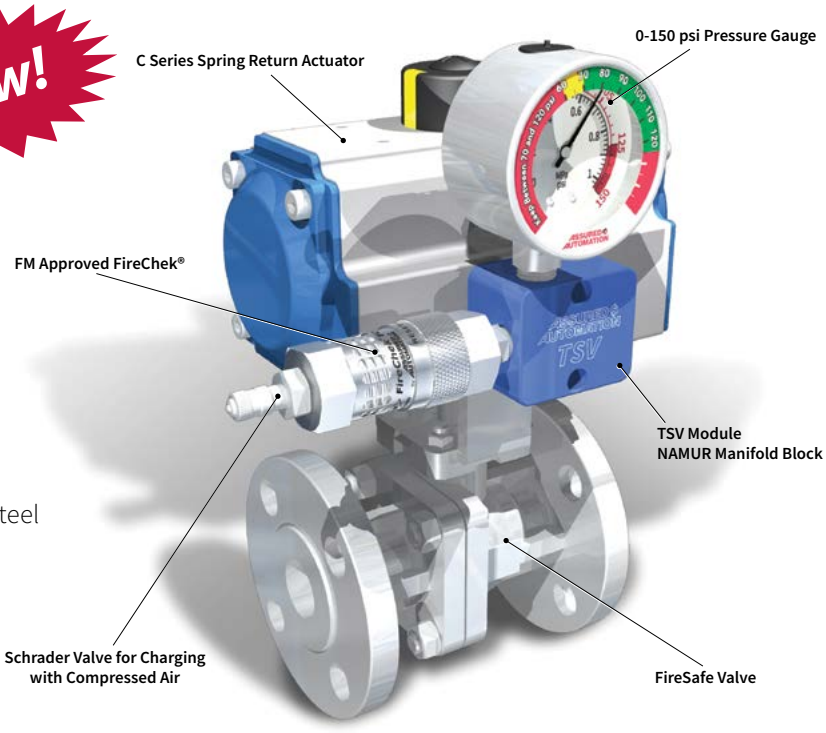


Thermal Shut-off Valves with *FireChek®*

TSV Series
NAMUR Mount TSV Module

New!

- FireChek heat activated pneumatic vent valve
- Pressure gauge to view internal pressure
- Schrader valve for pressurizing to open valve
- Gauge, FireChek w/ Schrader valve and vent breather filter neatly mounted with a NAMUR manifold block
- Compact battery operated compressor for charging through Schrader valve



Tested to Military Standard 810G
All Valves are Fire-Safe to API 609

Ball Valves
- Carbon Steel or Stainless Steel
- NPT Female 1/2" to 4"
- Socket Weld 1/2" to 4"
- 150# ANSI Flanged 1/2" to 8"
- 300# ANSI Flanged 1/2" to 10"

Butterfly Valves
- Carbon Steel or Stainless Steel
- 150# Lugged 2" to 12"
- 150# Wafer 2" to 12"
- 300# Lugged 2" to 12"
- 300# Wafer 2" to 12"

ESD Series
Emergency Shutdown Valves
- Fire-Safe ball valves with NPT, Socket Weld, or ANSI Flanged Connections
- Valve maintains original functionality whether it is on/off or modulating
- NEMA 7 switches and solenoid valves
- Declutchable manual override available
- Trigger to fail open or closed
- Testable and resettable via **FireChek®**

ESOV Series
Swing-check Thermal Shut-off Valves
- Fire-Safe swing-check valves held open by a fusible link
- Electric or pneumatic remote triggering options
- Spring-loaded swing arm provides emergency actuation
- Factory tested to API 598
- 150# and 300# ANSI flanged connections from 2" to 16"

FM Fire-Safe Series
Fusible Link Shut-off Valves
- Fire-Safe ball and butterfly valves
- Manual valve with removable handle
- Spring-loaded canister provides emergency actuation
- Thermal or electro-thermal fusible links
- 5 trigger temperatures available
- Trigger to open or closed

Mechanical Water Meters

Multi-jet Meters (Non-resettable Totalizers - Pulse Output Optional)

WM-PC Series

Body: Plastic
Line Sizes: 1/2" to 1 1/2" NPT male
Flow Ranges: 1 - 15 gpm to 8 - 120 gpm
Max. Pressure: 150 PSIG
Max. Temperature: 105˚F
Units of Measure: Gallons or cubic feet

WM-NLC Series

Body: Lead free EcoBrass
Line Sizes: 1/2" to 2" NPT male
Flow Ranges: 1 - 15 gpm to 8 - 120 gpm
Max. Pressure: 150 PSIG
Max. Temperature: 122˚F
Units of Measure: Gallons or cubic feet

WM-NLCH Series

Body: Lead free EcoBrass
Line Sizes: 1/2" to 2" NPT male (only 3/4" from stock)
Flow Ranges: 1 - 15 gpm to 8 - 120 gpm
Max. Pressure: 150 PSIG
Max. Temperature: 194˚F
Units of Measure: Gallons

Positive Displacement Meters (Non-resettable Totalizers - Pulse Output Optional)

D10 Series

Body: Lead free brass
Line Sizes: 1/2" to 1 " NPT male; 1 1/2" to 2" flange
Flow Ranges: 1 - 20 gpm to 8 - 160 gpm
Max. Pressure: 150 PSIG
Max. Temperature: 122˚F
Units of Measure: Gallons

WM-PD Series

Body: Epoxy coated Bronze
Line Sizes: 1/2" or 3/4" NPT male
Flow Ranges: 6.6 - 660 gph to 10.6 - 1056 gph
Max. Pressure: 150 PSIG
Max. Temperature: 100˚F
Units of Measure: Gallons

Digital Displays (with reset that can be disabled)

KAL-D06

KAL-D06 Series

Make reading easy with a resettable display.
Available in various models.

- Reset button that can be disabled
- Can be backlit with external 5VDC power source
- 8 digit display goes up to 99,999,999
- UL listed

Available Models

KAL-D06-NEMA
NEMA 4X Enclosure

KAL-D06-LOCK
Lockable Reset Button

KAL-D06-DUAL
Two Displays

KAL-D06-MULTI
NEMA 4X, Up to 10 Displays

Digital Flow Meters

Turbine Meters

01N Series (water) 01A Series (fuel)

Body: 01N: Nylon; 01A: Aluminum
Function: Totalizer only (resettable)
Line Size: 1" NPT
Flow Range: 3 - 30 gpm
Max. Pressure: 01N: 150 PSIG; 01A: 300 PSIG
Max. Temperature: 130˚F

G2 Series

Body: Nylon
Function: Rate, grand total, and resettable total
Line Sizes: 1/2" to 2" NPT, tri-clamp, ANSI class 150
Flow Ranges: 1 - 10 gpm to 20 - 200 gpm
Max. Pressure: 150 PSIG
Max. Temperature: 130˚F

A1 Series

Body: Nylon or Aluminum
Function: Rate, grand total, and resettable total
Line Sizes: 1" or 2" NPT
Flow Ranges: 0.3 - 300 gpm
Max. Pressure: 150 PSIG (nylon); 300 PSIG (Aluminum)
Max. Temperature: 130˚F

TM Series

Body: PVC
Function: Rate, grand total, and resettable total
Line Sizes: 1/2" to 4" NPT, spigot, or ANSI class 150
Flow Ranges: 1 - 10 gpm to 60 - 600 gpm
Max. Pressure: 150 PSIG
Max. Temperature: 130˚F

Magnetic Inductive Meters

MAG Series

Body: Stainless steel
Function: Rate, total, temp.; 2 outputs for switch or signal
Line Sizes: 1/4" to 2" NPT, tri-clamp, G (BSPP)
Flow Ranges: 0 - 0.8 gpm to 0 - 160 gpm
Max. Pressure: 232 PSIG
Max. Temperature: 190˚F

Paddle Wheel Meters

WM-PT & WWM Series

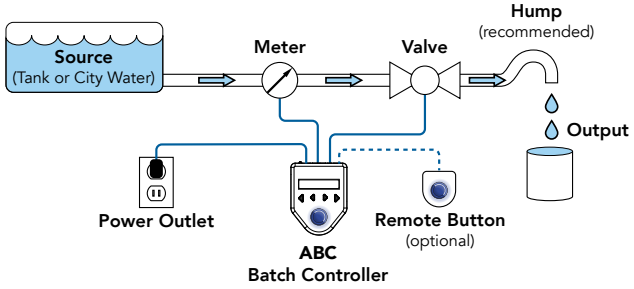
Body: PVC; pipe mounted or insertion
Function: Rate, grand total, and resettable total
Line Sizes: 1/2" to 8"
Flow Ranges: 0.6 - 15 gpm to 250 - 3200 gpm
Max. Pressure: 200 PSIG
Max. Temperature: 120˚F

Batch Controllers

Low-cost & Easy to Use

ABC-2020 Series

- **Extremely easy to install and use**
- **Works with low-cost mechanical water meters**
- **Works with MAG Series Magnetic flow meters**
- **Horizontal or vertical pipe mount, or wall mount**
- **12VDC power cord provided**
- **All input and output connections are push-in**
- **Highly visible blinking button for status indication**
- **Remote start/stop button available**



Complete Systems including Controller, Valve, and Meter Start at under $500

Industrial

EB11 Series

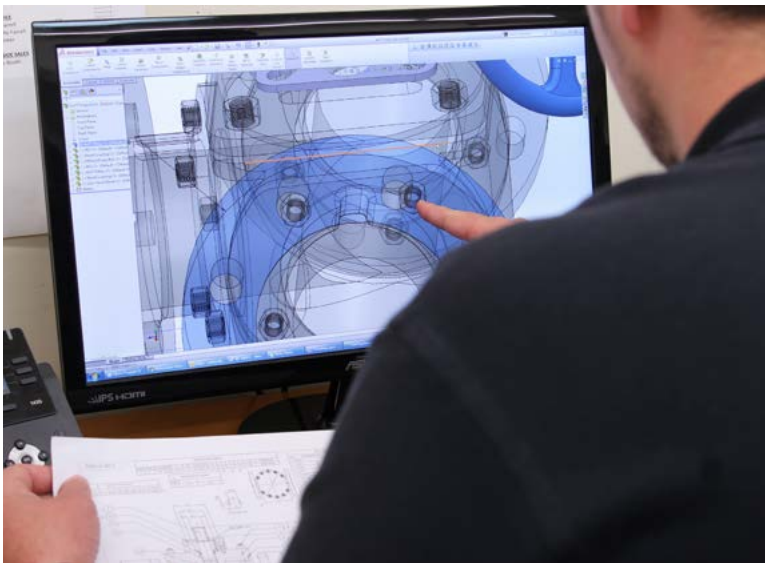
- **Dual Stage for Extreme Accuracy**
- **NPN, PNP, Reed Switch, Coil, or NAMUR inputs**
- **Battery operated or external power**
- **Backlit display with external power**
- **IP66 (NEMA4X) glass reinforced nylon housing**
- **Simple 2-button user interface**
- **Works with A1, G2, and TM meters with optional pulse output modules as well as many other meters**

ASSURED AUTOMATION

We Make **Valve Automation** Easy

Custom Valve Assemblies

We have been helping customers develop custom solutions since we opened in 1983. Whether we are constructing a unique assembly using components that we stock for basic valve automation or sourcing hard to find specialty valves, we work closely with you to develop the best possible solution. After development is complete, we build, test, and deliver the approved automated valve assemblies.



Why Assured Automation?

We employ an experienced team that is focused completely on valve automation. In addition to our experience, we have long running relationships with many leading valve manufacturers.

Working with **Assured Automation** will save you time on research and development, producing complete technical specifications, and sourcing the necessary components. When a unique application requires a special solution, Assured Automation will allow you to proceed with confidence.

Need a Custom Solution?

Call us today to speak with an automated valve expert

1-800-899-0553

Automated Valve Projects

When building a new system or upgrading an existing one, there are usually a large number of automated valves involved. Our valve automation experts will help you select the proper valves for every need.

We Will Help You Make Strategic Decisions Regarding:

- Selecting the proper valve and actuator for each application
- Reducing initial costs and cost of operation
- Simplifying inventory by standardizing components
- Avoiding excessive downtime for maintenance
- Developing a proper maintenance schedule

Some of the Benefits That Our Customers Enjoy Are:

- Configuring their own assemblies and instant quotes online
- Fast quotes provided on all products
- One-click ordering of quotes
- Complete documentation is readily available on our web site
- Custom tagging of assemblies for use in P&ID drawings, HMI interfaces, and maintenance logs
- Same day shipping of assemblies using stocked components
- Knowledgeable and friendly expert support

263 Cox Street • Roselle • NJ • 07203
1-800-899-0553
assured**automation**.com

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ITAR Compliant

ISO 9001:2015 Certified