

### CHECK VALVES



#### Series CKM

Patented design closes automatically, requires no reverse pressure ½", ¾", 1" PVC, CPVC, GPP, PVDF, PTFE



#### Series CKS

Isolated spring closes valve automatically, requires no reverse pressure 1 ½", 2", 3", 4" PVC, CPVC, PP, PVDF



#### Series CKD

Specialty diaphragm design opens with virtually no forward pressure ¼", ½" PVC, PP, PVDF, PTFE

### VACUUM BREAKERS



#### Series VBM

Patented design closes automatically, requires no reverse pressure ½", ¾", 1" PVC, CPVC, GPP, PVDF, PTFE



#### Series VBS

Isolated spring closes valve automatically, requires no reverse pressure 1-½", 2", 3", 4" PVC, CPVC, PP, PVDF

### AIR RELEASE & DEGASSING VALVES



#### Series ARV

Provides rapid expulsion of air at start-up; seals bubble-tight while system operates. Dust cap optional. ½", ¾", 1", 1 ½", 2", 3", 4" PVC, CPVC, PP, PVDF



#### Series DGV

Provides continuous venting of trace amounts of air/gas as it occurs during system operations. ½" PVC, CPVC, PP, PVDF, Clear Acrylic



#### Series CARD

Combines ARV initial volume venting & DGV continuous trace venting in one unit. 1", 2", 4" PVC, CPVC

### RELIEF, BY-PASS & BACKPRESSURE VALVES



#### Series RVD

Angle flow pattern with PTFE spring guides. Compact, rugged design ¼", ½" PVC, CPVC, PP, PVDF, PTFE



#### Series RVD inline

Inline pattern with ultra smooth flow performance, light weight ½", ¾", 1" PVC, CPVC, GPP, PVDF



#### Series RVD inline

PTFE diaphragm design has no wetted elastomers; 1st State-approved thermoplastic anti-siphon valve; superior performance and cycle life. Inline flow pattern ¼", ½", ¾", 1", 1 ½", 2", 3" PVC, CPVC, PP, PVDF, PTFE, SS



#### Series RVD inline

Angle flow pattern with PTFE shaft. High flow rates in a design proven for over 50 years ½", ¾", 1", 1 ¼", 1 ½", 2", 3" PVC, CPVC, PP, PVDF, PTFE

### HIGH PERFORMANCE PRESSURE REGULATORS



#### Series PRH/PRHM

Rolling diaphragm, extended shaft and multiple spring design is the industry standard for thermoplastic pressure regulators. Set pressure range from 5 to 125 PSI on most models. ¼", ½", ¾", 1", 1 ½", 2", 3", 4" PVC, CPVC, PP, PVDF, PTFE



#### Series PRD/PRDM

Differential pressure regulator eliminates overpressure across a bank of filters, etc. via tubing connected downstream. Set range to 50 PSI. ¼", ½", ¾", 1", 1 ½", 2", 3" PVC, PP

### ULTRA PURE PRESSURE REGULATORS



#### Series PRHU

Kynar machined body with metal ion-free EPDM rolling diaphragm, IPS or metric spigot connections. Highest flow performance in ultra-pure valve with 10 to 125 PSI set range. ½" - 3" or 20 mm - 90 mm Kynar 740 PVDF



#### Series UPR

Kynar machined body with no wetted elastomers; variable area PTFE diaphragm provides excellent pressure response. UPR is a non-shutoff design with 5 to 100 PSI set range. ¼" NPT or Flare; PVDF or PTFE 20, 25, 32, 50, 63mm spigot; PVDF



#### Series UPRS

Kynar PVDF machined body with Kalrez semiconductor grade elastomers; variable area PTFE diaphragm provides excellent pressure response. UPRS is a shutoff design with 5 to 100 PSI set range; 20 - 63 mm spigots. Available with or without intrinsic pressure gauge and gauge guard.

### COOLING WATER STICKS



#### Series ECWS

Supply side stick strengthens piping and reduces installation costs. Includes ball valve, pressure regulator, pressure gauge, or Tridicator. ½", ¾", 1", 1 ½", 2" PVC



#### Series ECWR

Return stick strengthens piping and reduces installation costs. Include diaphragm valve, flow meter, Tridicator. ½", ¾", 1", 1 ½", 2" PVC



# PLASTOMATIC

## FLOW CONTROL VALVES



### Series FC

Internal snubber and orifice plate maintains constant, pre-set flow despite pressure fluctuations. Flow rate is tamper-proof and available from 1/4 GPM to 1 GPM. 1/4", 1/2", 3/4", 1"

## PULSATION DAMPENER/SUPPRESSOR



### Series PDS

Performs six functions to improve system performance: Pulsation Dampener smooths pump flow, Surge Suppressor absorbs vibrations, Water Hammer

Arrestor, Inlet Stabilizer enhances pump operation, Accumulator releases stored fluid during unwanted pressure drops, Expansion Tank protects system from thermal volume increases. 10, 50 and 180 cubic inch capacity in 1", 2", 3" connection, respectively. PVC, CPVC, PP, PVDF

## SOLENOID VALVES



### Series EASYMT/EASMT

Normally-closed design/energize to open. Million-cycle design featuring PTFE bellows; direct acting. Available with choice of rectified coil or rectified 'Z-Cool'

energy saving 24 watt coil. 120/60, 24/60, 240/60 AC or 24V DC 1/4", 1/2", 3/4", 1" sizes with 3/8" - 1 1/8" main orifice

PVC, CPVC, GPP, PVDF



### Series EAST

Compact, normally-closed design/energize to open. Million-cycle design featuring PTFE bellows; direct acting. Available with 11 watt, NEMA 4X coil.

120/60, 24/60, 240/60, 230/50 AC or 24V DC 1/4", 1/2" sizes with 3/8" or 1/4" main orifice

PVC, PP, PVDF



### PS

Pilot-operated, normally-closed design/energize to open. Million-cycle high flow rate valve features PTFE bellows; require pressure differential to function. Available with 11 watt, NEMA 4X coil.

120/60, 24/60, 240/60, 230/50 AC or 24V DC 1/4", 1/2", 3/4", 1", 1 1/2", 2", 3"

PVC, CPVC, PP, PVDF

## SHUTOFF VALVES



### Series BSDA/BSAM

Air operated, compact PTFE diaphragm valve for drain applications and pressures to 100 PSI.

1/4", 1/2", 3/4", 1", 1 1/2" PVC, CPVC, PP, PVDF, PTFE



### Series BSR

Air operated, balanced shaft design assures bubble tight shutoff with automatic spring return.

1/2", 3/4" PVC, PP



### Series MFR

Hand or foot operated manual valve. Press to open, automatic spring return closure.

1/2", 3/4" PVC

## GAUGE GUARDS & INSTRUMENTATION



### Series GGS

Heavy duty instrument isolator; 1/2" process connection with steel reinforced 1/4" instrument connection. Available with or without pressure or vacuum gauges. Standard instrument has 2 1/2" gauge face with stainless

steel case. Options include center back mount, acrylic shield for harsh environments, snubber, liquid filled face. PVC, CPVC, GPP, PP, PVDF



### Series GGMU

Ultrapure, zero deadleg instrument isolator with spigot connections. Available with or without pressure gauge. Standard instrument has 2 1/2" gauge face

with stainless steel case. Options include DI water fill and high purity clean/double bag procedure. PVC, PP, PVDF



### Series PT

Combination 0-160 PSI pressure and 0-180°F temperature 'Tridicator' gauge. Brass connection with 2 1/2" gauge face or stainless steel connection with 3" gauge face.



### Series SWT

PTFE diaphragm pressure switch features no wetted metals or elastomers. 16, 25, or 3 Amp models.

PVC, CPVC, PP, PVDF



### Series CC

Calibration columns feature 100% UV-resistant PVC; remain clear and easy-to-read for years. Rapid fill rates and longer testing periods improve efficiency and accuracy. 100, 250, 500, 1000, 2000 and 4000 ML

## SIGHT GLASSES & LEVEL INDICATORS



### Series GX

Single-wall sight glass for liquids compatible with acrylic. Fluttering streamers optional. 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 3" PVC, PP



### Series GY

Double-wall sight glass for liquids compatible with Pyrex inner wall. Fluttering streamers optional. 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 3" PVC, PP



### Series GYW

Double-wall sight glass for liquids compatible with Pyrex inner wall. Flange connections; fluttering device optional. 1 1/2", 2", 3", 4", 6", 8" PVC, CPVC, PP, PVDF, PTFE



## BALL VALVES



### Series MBV

The engineered ball valve features trunnion ball design, dual shaft seals, large diameter shaft, mounting lugs, PTFE seats, and perfectly spherical ball. Will outlive any competitive ball valve. NPT, socket, BSP or metric socket.  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1", 1  $\frac{1}{4}$ ", 1  $\frac{1}{2}$ ", 2", 3", 4" or 20 – 110 mm  
PVC, CPVC, PP, PVDF



### Flange Connections

Available for most sizes and materials, 2-way and 3-way.



### Z-Vent Balls

Designed for sodium hypochlorite and other applications prone to dangerous outgassing. Vent allows trapped liquid and resulting gas to escape harmlessly downstream.



### Sanitary Connections

Available for 2-way valves,  $\frac{1}{2}$ " through 2" in PP, PVDF.



### Series MBVM

Metering indicator shows degrees open. For use with regular or characterized ball valve, factory complete or as kit for retrofit. Series MBV sizes to 2" in all materials.



### Series MBVL

Lock out/tag out option. Available factory complete or as kit for retrofit.  
All sizes/materials for Series MBV.



### Series TMBV

Three-way version of Series MBV with same trunnion design and features. 2-hole or 3-hole option.  
 $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1", 1  $\frac{1}{2}$ ", 2"  
PVC, CPVC



### Series LMBV

Lateral reducing ball valve based on Series MBV; simplifies and strengthens lateral drops.  
Includes tee.  
 $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1", 1  $\frac{1}{2}$ ", 2" valve  
 $\frac{3}{4}$ ", 1", 1  $\frac{1}{2}$ ", 2", 3" tee  
PVC, CPVC, PP, PVDF

## ACTUATED BALL VALVES



### Series ABVA/ABVS

Air x air or fail-safe air x spring actuator for Series MBV, 3/8", 1" sizes. Thermoplastic construction, includes direct manual override. Options include limit stop and limit switch.



### Series ABRA/ABRS

Air x air or fail-safe air x spring actuator for Series MBV, 1  $\frac{1}{4}$ " to 4" sizes. Thermoplastic construction, most models include direct manual override  
3" & 4" designs features stainless actuator. Options include limit stop and limit switch.



### Series TABVA/TABRA/S

3-way air actuated valves, air x air or fail-safe air x spring versions for Series TMBV.



### CAFE Actuated Ball Valve

Superior multi-voltage electric actuators with manual override. CE marked, IP67 ingress protection, anti-condensation heater and over-torque protection. Plast-O-Matic engineered & assembled in USA.

### CAFE NITRO Actuated Ball Valve



Superior multi-voltage electric actuators with manual override. CE marked, IP67 ingress protection, anti-condensation heater and over-torque protection. Plast-O-Matic engineered & assembled in USA.



### Series TCAFE & TCAFEN

3-way electrically actuated valves with the same features as the two-way versions above



### Series EPP

Electro-Pneumatic Positioner turns any air actuated True Blue valve into an electronic control valve. Requires ABRA/ABRS actuator for all sizes.



### ZC Control Balls

Specific angles or special linear cut enables precise control of flow rates for manual valves, or for actuated valves with electronic positioning. All 2-way sizes and materials.

## PREMIUM ACTUATORS



### CAFE Actuator

ISO 14 drive or POM mount multi-voltage electric actuators with manual override. CE marked, IP67 ingress protection, anti-condensation heater and over-torque protection. ISO 14 mounting available. Plast-O-Matic engineered & assembled in USA.



### CAFE NITRO Actuator

ISO 14 drive or POM mount CAFE with added NITRO features including OLED screen, over-torque & over-temperature alarms, multiple drive modes. Options include proportional control, Modbus RS485, Failsafe, and so much more. ISO 14 mounting available. Plast-O-Matic engineered & assembled in USA.

### SPECIALTY CUSTOM



#### Series TRVDT

3-port valve, PTFE diaphragm design has no wetted elastomers; simplifies piping  
 $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1"  
 PVC, CPVC, PP, PVDF, PTFE,



#### Series PRA

Air-piloted design provides superior flow with industry's lowest drop-off from set pressure (droop). Set pressure range from 5 to 125 PSI.  
 $\frac{1}{4}$ ",  $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1", 1  $\frac{1}{2}$ ", 2", 3"  
 PVC, PP, PVDF



#### Series PRS

Optional patented Stabilizer is used with Series PRA. The Stabilizer reacts to downstream liquid pressure and provides continuous feedback control to the compressed air supply, for the ultimate regulator sensitivity and performance.  
 PVC, PP, PVDF, PTFE



#### Series PCWS

Supply side stick strengthens piping and reduces installation costs. Configurations include options with or without ball valve, diaphragm valve, y-strainer, pressure regulator, pressure gauge, Tridicator, and a variety of connection types.  
 $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1", 1  $\frac{1}{2}$ ", 2"  
 PVC, CPVC



#### Series PCWR

Return stick strengthens piping and reduces installation costs. Configurations include options with or without ball valve, diaphragm valve, flow meter, pressure gauge, Tridicator, and a variety of connection types.  
 $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1", 1  $\frac{1}{2}$ ", 2"  
 PVC, CPVC

*Specialty Custom Products are non-standard items; consult factory for price and availability. Minimum quantities may apply.*

### SPECIALTY CUSTOM



#### Series FC

Internal snubber and orifice plate maintains constant, pre-set flow despite pressure fluctuations. Flow rate is tamper-proof and available to 120 GPM. Sizes to 3".  
 PVC



#### Series HSA

Air operated pinch valve ideal for slurries or particulate. EPDM sleeve closes bubble-tight around media.  
 $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1"  
 PVC, CPVC, PP, PVDF



#### Series GGSLE

Isolated pressure or vacuum transducer based on Series GGS.  
 PVC, CP, PP, PF



#### Series GL

Double-wall level indicator for liquids compatible with Pyrex inner wall. 1", 2", 3" or 4" lengths.  
 $\frac{1}{2}$ ",  $\frac{3}{4}$ "  
 PVC, PP, PTFE



#### Series VPA

Metering pumps are air-operated, self-priming, positive displacement type pumps designed to meter precise quantities of liquids for dosing or filling, accurate to 1/2 of 1%. The four sizes of pumps available have a single stroke maximum delivery capacity of 7, 10, 32 or 128 liquid ounces, adjustable to deliver smaller portions. PVC, PP, PVDF



#### Series TMBV 3" and 4"

Three-way version of Series MBV with same trunion design and features. 2-hole or 3-hole option.  
 3", 4"  
 PVC, CPVC

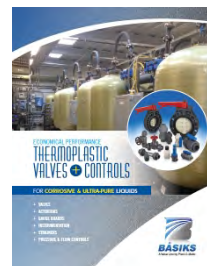
### FULL CUSTOM: X & Q VALVE PROGRAMS

If the exact flow or pressure control product doesn't exist for the application, Plast-O-Matic can design and manufacture it for you. With 55 years of thermoplastic valve experience, we've yet to find an application problem we couldn't solve, from the ocean depths to the International Space Station. Minimum quantities and/or engineering fees may apply.

### OPTIONS & ACCESSORIES

- High Purity Cleaning Procedure
- Factory setting on pressure control valves
- High Purity Flare Fittings
- Flange Connections
- High Purity Spigots
- Coated Fasteners
- Fail-Dry Sensor

### BASIKS PRODUCT LINE



Value line of commodity products, manufactured to Plast-O-Matic specifications, with complete technical support. One year warranty. Most products offered with NPT, socket, metric socket, BSP or JIS.

PVC & CPVC standard; most items also available in PP, GPP & PVDF.

- Manual & Actuated Butterfly Valves and Ball Valves
- Ball Checks
- Weir Style Diaphragm Valves
- PTFE Diaphragm Backpressure Valves
- Wye Strainers
- Mini Gauge Guards
- Flow & Level Switches
- Solenoid Valves



## CHECK VALVES



### Series TBC-360

Rugged, low-cost ball checks in PVC, CPVC, Beige PP, PVDF. Float balls match body material, except PP ball is GPP. 1/2"-4" / 8-100mm sizes. Double-tier design requires minimal reverse pressure to seal. NSF approved.

## BALL VALVES



### Series BT-645

Saf-Bloc Manual Ball Valves offered in PVC, CPVC, PP, PVDF in 1/2"-4" / 8-100mm sizes. Valves are NSF approved and available with a wide range of connections and options; ANSI socket & NPT threaded ends both included with PVC manual valves.



### Series BT-646

Saf-Bloc Manual Ball Valves offered in PVC, CPVC, PP, PVDF in 1/2"-4" / 8-100mm sizes. Valves are NSF approved and universal mount design for a wide range of pneumatic and electric actuation packages.



### Flange Connections

BT-645 and BT-646 available in PVC and CPVC, all sizes with flanges. NSF approved.

## ACTUATED BALL VALVES



### Series EBT

Electrically actuated BT-645 with compact Basiks Actuators. On/off, battery backup fail-safe, manual override, fast-acting, modulating and programmable options. AC/DC 95V-265V, AC/DC 24V, DC 24V, AC 24V / 110V / 230V. CE Marked, NSF approved.



### Series ABT / Series SBT

Air-actuated BT-645. Double-acting ABT is air x air; fail-safe SBT is air x spring. Requires 60 PSI filtered air supply. NSF approved.

## ACTUATORS



### Basic Actuators

On/off with battery backup fail-safe, manual override, and high speed options. For Ball Valves & Butterfly Valves, torque ranges for 3/8" - 6" sizes. AC/DC 95V-265V, AC/DC 24V, DC 24V, AC 24V / 110V / 230V. CE Marked.



### Smart Actuators

Programmable actuators feature digital position sensing & OLED display, with optional modulating, high-speed and failsafe options. For Ball Valves & Butterfly Valves, torque ranges for 3/8" - 6" sizes. AC/DC 95V-265V, AC/DC 24V, DC 24V, AC 24V / 110V / 230V. CE Marked.

## BUTTERFLY VALVES

### Series BU-575

Heavy duty wafer design with stainless steel gear and stem, features multi-point sealing with polypro disc, actuator-ready. 2" - 8" in PVC.



### Series BG-579

Full flange design, stainless steel stem, isolated gear box, FC25 gear wheel and multi-point seal. 8" - 24" sizes in PVC.



## ACTUATED BUTTERFLY VALVES



### Series EBU

Electrically actuated BU-575 with compact Basiks Actuators. On/off, battery backup fail-safe, manual override, fast-acting, modulating and programmable options. AC/DC 95V-265V, AC/DC 24V, DC 24V, AC 24V / 110V / 230V. CE Marked.



### Series ABU / Series SBU

Air-actuated BU-575. Double-acting ABUs air x air; fail-safe SBU is air x spring. Requires 60 PSI filtered air supply.

## DIAPHRAGM VALVES



### Series D-14

Multi-turn weir-style diaphragm valve provides precise throttling control through bubble-tight closure; choice of PTFE or EPDM diaphragm. 1/2" - 2" in PVC, CPVC, PP, PVDF.



### Series DG

Ultra-smooth, non-rising stem design. Valve body, upper housing, end connector and flanges are choice of PVC, CPVC, beige polypro, or PVDF. Diaphragm is choice of EPDM or PTFE/Hypalon/PVDF.

## STRAINERS



### Series YS-53

Super clear PVC inline strainers in ANSI socket, NPT thread or Flanged connections, 1/2"-4" sizes. With correct flowpath, strainer traps sediment in any horizontal or vertical orientation.

## RELIEF / BACKPRESSURE VALVES



### Series S-RV

Compact, economical PTFE diaphragm relief/ bypass/ backpressure/ anti-siphon valve 1/4" - 1" sizes. PVC, PP, CPVC and PVDF available 2-way and 3-way. Set pressure range 5-150 PSI.

## GAUGE GUARDS



### Series GGME

Polypro Gauge Guard protects both the instrument and the process; Buna-N or Viton seal provides excellent  $\pm 4\%$  accuracy. 1/2" male process connection x 1/4" female instrument connection, available with various gauge ranges up to 200 PSI. Also available without gauge as instrument isolator.

## OPTIONS & ACCESSORIES

- High Purity Cleaning Procedure
- Factory setting on pressure control valves
- Flange Connections
- High Purity Spigots
- Metric, JIS & BSP connections; minimums apply
- Custom materials; minimums apply
- Customized actuation packages; consult factory
- Private labeling/branding

