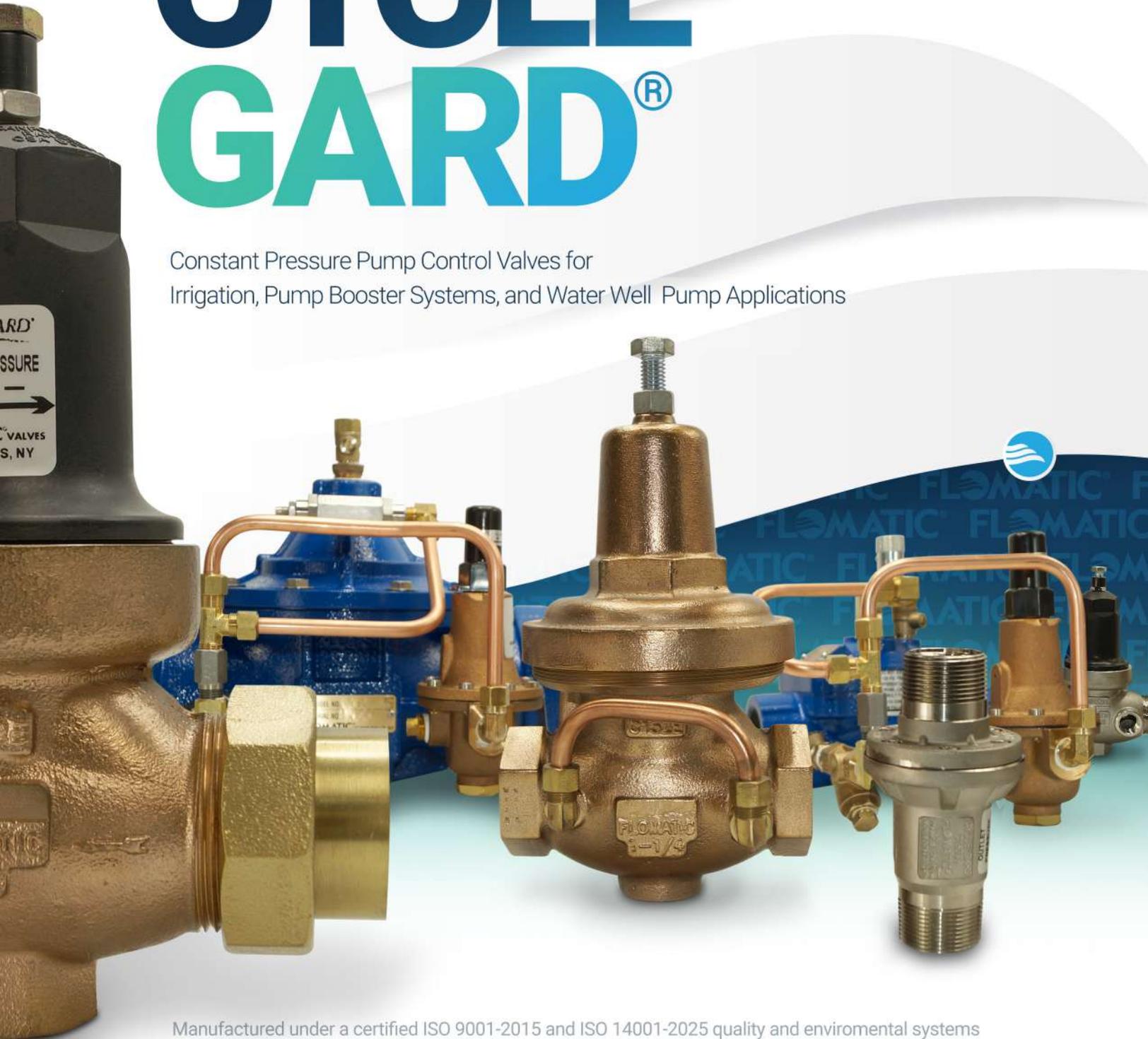


# CYCLE GARD®

Constant Pressure Pump Control Valves for  
Irrigation, Pump Booster Systems, and Water Well Pump Applications



# CYCLE GARD®

## DURABLE + DEPENDABLE

Cycle Gard® Constant Pressure Pump Control Valves automatically regulate downstream pressure and provides a constant pressure regardless of the system water flow demand until the demand on the system is no longer required. Depending on the valve model, an internal or external by-pass allows the system pressure to slowly rise under low demand and fill the tank. When the pressure switch setting is reached, the pump shuts off. Cycle Gard® valves prevent the pump from short cycling which allows for a smaller pressure tank.

The pressure switch setting is always set higher than the desired regulated system pressure and pressure setting on the Cycle Gard® valve. Once the system requires water flow, the tank will drain, triggering the pressure switch to start the pump and once again enabling the Cycle Gard® valve to supply constant pressure.

Cycle Gard® Constant Pressure Pump Control Valves maintain a constant pressure, prevent the pump from cycling, are hydraulically operated requiring no electricity, reduce the effect of water hammer, extends pump motor life, and allow for reduced tank size. The Cycle Gard® Constant Pressure Pump Control system is more compact and often at lower system installation cost.

### IRRIGATION

- Golf courses
- Schools
- Parks
- Houses
- Farms
- Residential areas

### PUMP BOOSTER SYSTEMS

- Hotels
- Restaurants
- Manufacturing plants
- Apartments & Subdivisions
- Well supply systems

### WATER WELL PUMPS

- Domestic water
- Municipal water
- Water well supply systems

## FEATURES & BENEFITS



- Maintains a constant pressure
- Stops pump from short cycling
- Hydraulically operated (no electricity required)
- Extends pump motor life
- Eliminates effects of water hammer
- Ease to install
- Field adjustable
- Provides more efficient use of appliances
- 3 year warranty

ENABLES A COMPACT SYSTEM AND DOWNSIZED TANK





## MODEL CYCLE GARD® I C152E

Reduces rapid pump cycling and maintains a pre-set operating pressure for pump systems. Threaded female & female connection. Features an unleaded body & composite bell housing with a UV-Resistant cover and a Nylon reinforced Buna-N diaphragm. Supplied with two FNPT tailpiece and union nuts.

Factory set at 50 PSI, Certified: NSF/ANSI 61 & 372

**TEMP MAX:** 180°F (80°C)

**PRESSURE MAX:** 400 PSI

**SIZES:** 3/4 THRU 2"



## MODEL CYCLE GARD® I C152ET

Dual purpose threads, reduces rapid pump cycling and maintains a preset operating pressure for pump systems. 1" threaded female I.D. & 1 1/4" male O.D. on inlet and outlet connections. Features an unleaded body & composite bell housing, with an UV-Resistant cover and Nylon reinforced Buna-N diaphragm.

Factory set at 50 PSI, Certified: NSF/ANSI 61 & 372

**TEMP MAX:** 180°F (80°C)

**PRESSURE MAX:** 400 PSI

**SIZES:** 1"F & 1 1/4"M



## MODEL CYCLE GARD® IV C152E

Reduces rapid pump cycling and maintains a pre-set operating pressure for pump systems. Threaded female & female union ends or female I.D. & male O.D. on inlet and outlet connections. Features a flow efficient globe style unleaded alloy body & composite bell housing, Nylon reinforced Buna-N diaphragm. Supplied with two FNPT tailpiece and union nuts. With two (2) 1/4" tappings for gage and pressure switch. One (1) 3/4" tapping for water tank.

Factory set at 50 PSI, Certified: NSF/ANSI 61 & 372

**TEMP MAX:** 180°F (80°C)

**PRESSURE MAX:** 400 PSI

**SIZES:** 1"F & 1 1/4"M  
UNION ENDS 1" F X 1" F



## MODEL CYCLE GARD® IV C152SST

Reduces rapid pump cycling and maintains a pre-set operating pressure for pump systems. NPT threaded 1" female I.D. & 1 1/4" male O.D. on inlet and outlet connections. Features a flow efficient globe style all stainless steel body & composite bell housing, Nylon reinforced Buna-N diaphragm. With two (2) 1/2" tappings for gage, pressure switch, and relief valve, and one (1) 3/4" tapping for water tank.

Factory set at 50 PSI, Certified: NSF/ANSI 61 & 372

**TEMP MAX:** 180°F (80°C)

**PRESSURE MAX:** 400 PSI

**SIZES:** 1"F & 1 1/4"M

### SELF CLEANING

All of the Cycle Gard® models on this page are designed with a slotted seat.

- Slotted Seat
- Allows 1 gallon per minute when closed
- No Screen

### UNIQUE GLOBE STYLE BODY for improved laminar flow





## MODEL CYCLE GARD® I C153S6



Reduces rapid pump cycling and maintains a preset system operating pressure independent from low or high flow conditions. Valve body is all stainless steel female NPT connection. The valve supports a hanging load up to 3,400 lbs. and fits in a 4" well casing.

Dual purpose 1" F & 1 1/4" M design is rated for 1 - 20 GPM. Flomatic's full port 1 1/4" female design is rated for 2 - 50 GPM.

**NOTE:** Factory set at 50 PSI standard part number below, for 40 PSI add "A", for 60 PSI add "B", for 70 PSI add "C" to end of part number - 70 PSI only for 1"F& 1 1/4"M configuration.

Factory set at 50 PSI, Certified: NSF/ANSI 61 & 372 Available with a 3 GPM Bypass

**TEMP MAX:** 180°F (80°C)

**PRESSURE MAX:** 400 PSI

**SIZES:** DUAL PURPOSE  
1" F & 1 1/4" M AND 1 1/4" F THREADS

## MODEL CYCLE GARD® I C153S6



Reduces rapid pump cycle with field adjustable by-pass and maintains a pre-set operating downstream pressure for pump systems. Threaded female x female NPT connection with hex end OD. Features an unleaded body and cover. Nylon reinforced Buna-N diaphragm. Ideal for flows up to 70 GPM.

Factory set at 50 PSI

**TEMP MAX:** 180°F (80°C)

**PRESSURE MAX:** 400 PSI

**SIZES:** 1 1/4"

# MODEL CYCLE GARD® C153S6

In-Line Constant Pressure Pump Control Valve



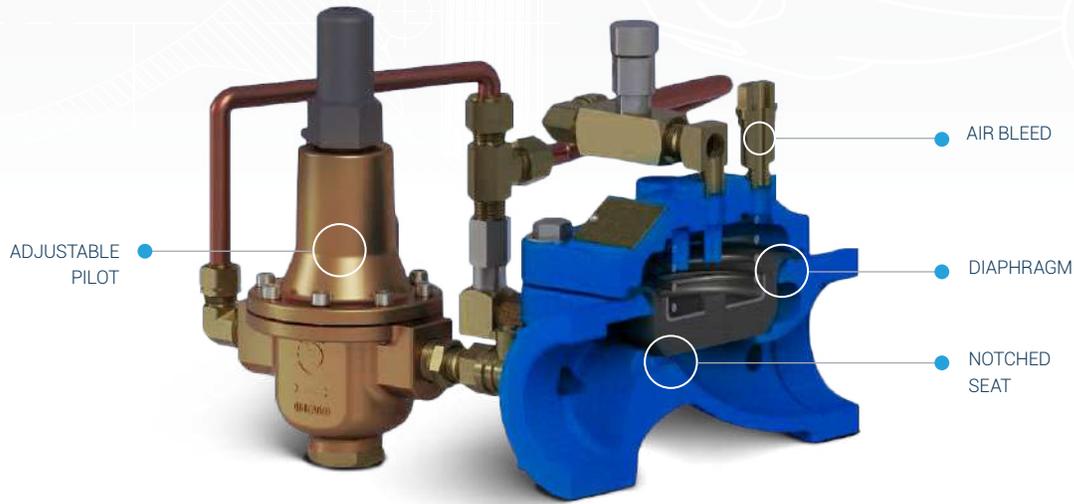
DIAPHRAGM

STAINLESS  
STEEL BODY AND  
FASTENERS

STAINLESS  
STEEL SPRING

SEAT

# MODEL CI



## MODEL CYCLE GARD® II CN101

Prevents pump short cycling with field adjustable by-pass and maintains a pre-set adjustable operating downstream pressure. Features a ductile iron epoxy coated body with drain plug, isolation valves for pilots and controls, plugged port for gages and all SS fasteners with valve opening/closing speed controller. For use with domestic, water well, municipal water systems, industrial water system, irrigation and agriculture.

Factory set at 50 PSI, Pending Certification: NSF/ANSI 61 & 372

**TEMP MAX:** 180°F (80°C)      **PRESSURE MAX:** 400 PSI      **SIZES:** 1 1/4" THRU 8"



## MODEL CYCLE GARD® I CN101

Reduces rapid pump cycle with field adjustable external bypass and maintains a pre-set adjustable operating downstream pressure with valve opening/closing speed controller. Ideal for irrigation, water wells and agriculture applications.

Factory set at 50 PSI, Pending Certification: NSF/ANSI 61 & 372

**TEMP MAX:** 180°F (80°C)      **PRESSURE MAX:** 250 PSI      **SIZES:** 1 1/2" THRU 2"



## MODEL CYCLE GARD® CI2 CN101-2

Reduces rapid pump cycle and maintains a pre-set adjustable operating downstream pressure. Ideal for irrigation, water wells and agriculture. Built in integrated by-pass at 5 GPM.

Factory set at 50 PSI, Pending Certification: NSF/ANSI 61 & 372

**TEMP MAX:** 180°F (80°C)      **PRESSURE MAX:** 250 PSI      **SIZES:** 1 1/2" THRU 2"



BEST

BETTER

GOOD



# Cycle Gard®

## CROSS REFERENCE GUIDE

\* Cycle Stop® is a registered trademark by Cycle Stop Valves, Inc. Texas.

### Cycle Gard® vs. Cycle Stop®

Flow Range	Size	Flomatic® Cycle Gard® Model	Cycle Stop® Model
1-25 GPM and higher	¾" thru 2" female NPT tailpiece and union nuts	Model C152E (Unleaded Bronze Body)	Not Available
1-25 GPM	1" female NPT and 1 ¼" male NPT	Model C152ET (Unleaded Bronze Body)	Not Available
1-25 GPM	1" female NPT tailpiece and union nuts	Model CB152E (Unleaded Bronze Body)	Not Available
1-25 GPM	1" female NPT and 1 ¼" male NPT	Model CB152E (Unleaded Bronze Body)	Not Available
1-25 GPM	1" female NPT and 1 ¼" male NPT	Model CB152SST (Stainless Steel Body)	CSV1A (Stainless Steel Body)
1-20 GPM	1" female NPT and 1 ¼" male NPT	Model C153S6 (Stainless Steel Body)	Not Available
1-20 GPM	1" female NPT and 1 ¼" male NPT	Model C153S6-3 (Stainless Steel Body)	Not Available
1-50 GPM	1 ¼" female NPT	Model C153S6 (Stainless Steel Body)	CSV125(PSI)- 1 (Plastic Body)
1-50 GPM	1 ¼" female NPT	Model C153S6 (Stainless Steel Body)	CSV125(PSI)- 1 (Plastic Body)
5-70 GPM	1 ¼" female NPT	Model C152EHF (Unleaded Bronze Body)	CSV2W1.25T-2575 (No Lead Brass Body)
5-70 GPM	1 ¼" female NPT	Model C152EHF (Unleaded Bronze Body)	CSV2W1.25T-50120 (No Lead Brass Body)

\* Cycle Stop® is a registered trademark by Cycle Stop Valves, Inc. Texas.



### Cycle Gard® CI (Ductile Iron) vs. Cycle Stop® Model CSV3B (Cast Iron)

Flow Range	Size	Flomatic® Cycle Gard® Model	Cycle Stop® Model
5-85 GPM	1 ½"	CIN1020C2	Not Available
5-150 GPM	2"	CIN1020D2	Not Available
5-85 GPM	1 ½"	CIN1020C	Not Available
5-150 GPM	2"	CIN1020D	CSV3B-2T

\* Cycle Stop® is a registered trademark by Cycle Stop Valves, Inc. Texas.



### Cycle Gard® II (Ductile Iron) vs. Cycle Stop® Model CSV3B (Cast Iron)

Flow Range	Size	Flomatic® Cycle Gard® Model	Cycle Stop® Model
5-50 GPM	1 ¼"	CN1010B (Threaded)	Not Available
5-80 GPM	1 ½"	CN1010C (Threaded) / CN1011C (Flanged)	Not Available
5-150 GPM	2"	CN1010D (Threaded)	CSV3B-2T
5-150 GPM	2"	CN1011D (Flanged)	CSV3B-2F
5-180 GPM	2 ½"	CN1010E (Threaded)	Not Available
5-180 GPM	2 ½"	CN1011E (Flanged)	Not Available
5-300 GPM	3"	CN1010F (Threaded)	CSV3B-3T
5-300 GPM	3"	CN1011F (Flanged)	CSV3B-3F
5-500 GPM	4"	CN1011G (Flanged)	CSV3B-4F
5-1200 GPM	6"	CN1011J (Flanged)	CSV3B-6F
5-2000 GPM	8"	CN1011K (Flanged)	CSV3B-8F
5-2500 GPM	10"	CN101/CNA101 (Consult factory)	CSV3B-10F
5- 5000 GPM	12"	CN101/CNA101 (Consult factory)	CSV3B-12F

Please read the disclaimer below before using this information.

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Disclaimer: All product listed above are not exactly comparable and are listed to give the reader some reference that should be verified with the manufacturer of the product. Also, all data and performance values contained in this publication are for general information only and should not therefore, be used or relied upon for any specific application without independent competent professional examination and verification of its accuracy, suitability and applicability. Anyone making use of performance values contained herein does so at their own risk and assumes any and all liability resulting from such use. Flomatic® Corporation disclaims any and all expressed or implied warranties of fitness for any general or particular application.

# FLOMATIC® VALVES

Designing, Developing, and Manufacturing  
**The Most Complete Line of Valves for Water and Wastewater Applications**  
in The United States



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LIMITED THREE YEAR WARRANTY: The Flomatic Corporation warrants that its Cycle Gard® Valves in all sizes are free from defects in materials and workmanship. Flomatic will replace any valve covered by this warranty found to be defective within one year from time of sale. This warranty will be void if the product has been modified in any way by the purchaser, or is subject to unreasonable use.

