



# KINGSTON

## BV Series

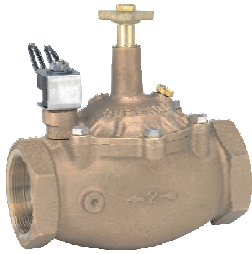


BV201XCF

- **Advanced two-piece internal assembly offers upper diaphragm protection and reliable lower seat operation, providing long-term durability and performance under the toughest conditions**
- **Self-cleaning metering rod system ensures that only “clean” water enters the upper diaphragm chamber, offering consistent performance and increasing diaphragm lifespan**
- **All EPDM rubber parts outlast commonly used Buna-N parts when exposed to recirculated or reclaimed process water**
- **Consistent design across model options allows for ease of installation and serviceability, making the BV Series a “Superior” long-term value**
- **Wide range of sizes maximize system commonality (3/4” to 3”)**



## BV



- Normally closed forward flow pattern
- In-line Serviceable
- Slow Closing design prevents water hammer

### How To Specify / Order

**BV 10 1 X C F**

Model	Size	Solenoid Type
BV	10 = 1"	1 = 120 VAC

## BV

Model No.	Descriptions
BV07XF	3/4" NPT 200psi, 24VAC, Flow Control
BV071XCF	3/4" NPT 200psi, 120VAC, Flow Control
BV10XF	1" NPT 200psi, 24VAC, Flow Control
BV101XCF	1" NPT 200psi, 120VAC, Flow Control
BV12XCF	1-1/4" NPT 200psi, 24VAC, Flow Control
BV121XCF	1-1/4" NPT 200psi, 120VAC, Flow Control
BV151XCF	1-1/2" NPT 200psi, 120VAC, Flow Control
BV201XCF	2" NPT 200psi, 120VAC, Flow Control

## BVDW



- \* **Adds Dirty Water Filter:**  
The stainless steel, self-flushing filter provides dirty water protection to ensure proper flow



### How To Specify / Order

**BVDW 10 1 X C F**

Model	Size	Solenoid Type
BVDW	10 = 1"	1 = 120 VAC

## BV Dirty Water

Model No.	Descriptions
BVDW07XF	3/4" NPT 200psi, 24VAC, Flow Control w/ Dirty Water Filter
BVDW071XCF	3/4" NPT 200psi, 120VAC, Flow Control w/ Dirty Water Filter
BVDW10XF	1" NPT 200psi, 24VAC, Flow Control w/ Dirty Water Filter
BVDW101XCF	1" NPT 200psi, 120VAC, Flow Control w/ Dirty Water Filter
BVDW12XCF	1-1/4" NPT 200psi, 24VAC, Flow Control w/ Dirty Water Filter
BVDW121XCF	1-1/4" NPT 200psi, 120VAC, Flow Control w/ Dirty Water Filter
BVDW151XCF	1-1/2" NPT 200psi, 120VAC, Flow Control w/ Dirty Water Filter
BVDW201XCF	2" NPT 200psi, 120VAC, Flow Control w/ Dirty Water Filter

## BVDWIB



- Dirty Water Filter
- \* **Adds Internal Bleed System:**  
Allows for manual operation of the valve, and prevents dirty water from entering valve box

### How To Specify / Order

**BVDWIB 10 1 X C F**

Model	Size	Solenoid Type
BVDWIB	10 = 1"	1 = 120 VAC

## BV Dirty Water Internal Bleed

Model No.	Descriptions
BVDWIB07XF	3/4" NPT 200psi, 24VAC, Flow Control w/ DW, Internal Bleed
BVDWIB071XCF	3/4" NPT 200psi, 120VAC, Flow Control w/ DW, Internal Bleed
BVDWIB10XF	1" NPT 200psi, 24VAC, Flow Control w/ DW, Internal Bleed
BVDWIB101XCF	1" NPT 200psi, 120VAC, Flow Control w/ DW, Internal Bleed
BVDWIB12XCF	1-1/4" NPT 200psi, 24VAC, Flow Control w/ DW, Internal Bleed
BVDWIB121XCF	1-1/4" NPT 200psi, 120VAC, Flow Control w/ DW, Internal Bleed
BVDWIB151XCF	1-1/2" NPT 200psi, 120VAC, Flow Control w/ DW, Internal Bleed
BVDWIB201XCF	2" NPT 200psi, 120VAC, Flow Control w/ DW, Internal Bleed

## BVPRS



- Dirty Water Filter
- Internal Bleed System
- \* **Adds Pressure Regulation:**  
PRS feature maintains a constant outlet pressure anywhere between 10 and 125 psi

### How To Specify / Order

**BVPRS 10 1 X C F**

Model	Size	Solenoid Type
BVPRS	10 = 1"	1 = 120 VAC

## BV Pressure Regulating System

Model No.	Descriptions
BVPRS07XF	3/4" NPT 200psi, 24VAC, Flow Control w/ DW, IB, Pressure Reg Sys.
BVPRS071XCF	3/4" NPT 200psi, 120VAC, Flow Control w/ DW, IB, Pressure Reg Sys.
BVPRS10XF	1" NPT 200psi, 24VAC, Flow Control w/ DW, IB, Pressure Reg Sys.
BVPRS101XCF	1" NPT 200psi, 120VAC, Flow Control w/ DW, IB, Pressure Reg Sys.
BVPRS12XCF	1-1/4" NPT 200psi, 24VAC, Flow Control w/ DW, IB, Pressure Reg Sys.
BVPRS121XCF	1-1/4" NPT 200psi, 120VAC, Flow Control w/ DW, IB, Pressure Reg Sys.
BVPRS151XCF	1-1/2" NPT 200psi, 120VAC, Flow Control w/ DW, IB, Pressure Reg Sys.
BVPRS201XCF	2" NPT 200psi, 120VAC, Flow Control w/ DW, IB, Pressure Reg Sys.

### Pressure Loss in PSI

GPM	5	10	15	20	30	40	50	60	70	80	90	100	120	140	160	200	240	260	320	360
3/4"	0.45	1.75	4	7																
1"	0.16	0.75	1.5	2.6	5.7	10														
1-1/4"		0.48	0.85	1.9	3.5	5.3	7.6	10.1												
1-1/2"			0.45	1	1.7	2.65	3.8	5.1	6.6	8.3	10.9									
2"				0.53	0.82	1.2	1.6	2.05	2.6	3.2	4.6	6.3	8	13.9						
2-1/2"							2.38	2.45	2.5	2.9	4	6	8.2	10.7	13.2					
3"								2.38	2.45	2.5	2.9	4	6	8.2	10.7	13.2				

### Solenoid Specifications

**24 VAC**  
In-rush current: 45 A (10.8 VA)  
Holding current: .30 A (7.2 VA)

**120 VAC**  
In-rush current: 95 mA (10.5 VA)  
Holding current: .65 mA (7.2 VA)

### Operating Ranges

Flow: 0 - 360 gpm  
Pressure: 20 - 150 psi