

# 100 SERIES ELECTRIC GLOBE/ANGLE

## 1", 1 1/2", 2" AND 3" PLASTIC MODELS

CENTURY PLUS & 102 ANTI-CONTAMINATION MODEL



The Irritrol® 100 Series (Century PLUS) is an excellent example of a good valve getting better. Tracing its origin to the highly popular Century Series, the 100 Series delivers reliable performance with a host of enhanced features. Offered in a globe/angle configuration with sizes ranging from one to three inches, the 100 Series features a pressure range of 10-220 psi, optional modular pressure regulation, stainless steel metering, internal and external bleed, a nylon-reinforced Buna-N double-beaded diaphragm and an anti-contamination design for dirty water applications (available on all 102 Models).

## KEY FEATURES & BENEFITS

### TOUGH, GLASS-REINFORCED NYLON, STAINLESS STEEL AND BRASS CONSTRUCTION

Withstands high temperatures and system surges under pressure for long-term reliability

### 220 PSI PRESSURE RATING

Prevents water hammer and system damage in high-pressure installations

### INTERNAL AND EXTERNAL BLEED (FLUSH MODE)

Manual operation

### EXTERNALLY REMOVABLE SELF-CLEANING METERING SYSTEM

Provides consistent performance in recycled-water applications

### ACCEPTS OMNIREG® MODULAR PRESSURE REGULATOR

Ensures consistent performance

### 102 ANTI-CONTAMINATION MODELS\*

#### 150-MESH EXTERNAL CONTROL WATER FILTER AND THREE-WAY SOLENOID

Provides non-continuous metering for recycled water applications

#### SELECTABLE NORMALLY OPEN OR NORMALLY CLOSED MODE (FACTORY SET AT NORMALLY CLOSED)

Provides flexibility (102 only)

#### CONTROL WATER FILTER

Allows easy external service

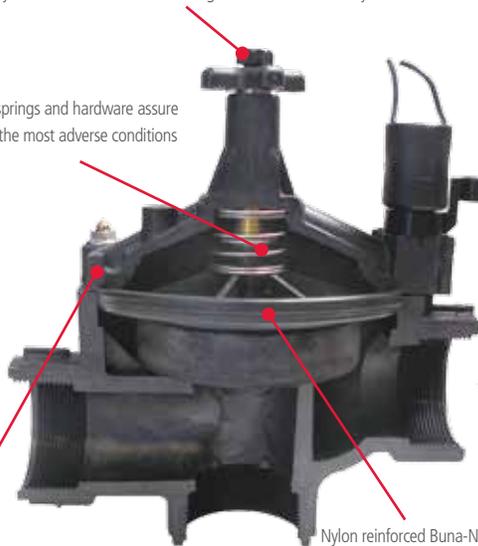
\*Not compatible with IBOC®300-9V, OmniReg and DC Latching Solenoid



## TOUGHEST UNDER PRESSURE

Self-cleaning/easy maintenance, each cycle cleans internal orifices. All parts are easily accessible without removing the valve from the system

Stainless steel springs and hardware assure long life under the most adverse conditions



Internally molded studs provide positive bonnet attachment

Nylon reinforced Buna-N diaphragm provides a leak-proof seal

## FRICTION LOSS DATA

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM					
			5	10	20	30	40	50
100P1	1"	G	6.30	4.20	3.20	4.10	7.20	10.90
102P1		A	6.30	4.20	3.10	2.70	4.80	7.90

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM								
			30	40	50	60	70	80	90	100	110
100P1.5	1½"	G	1.60	2.30	3.60	5.20	7.00	9.20	11.70	14.40	17.50
102P1.5		A	1.30	1.60	2.80	4.00	5.50	7.10	9.00	11.00	13.30

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM								
			80	90	100	110	120	130	140	150	175
100P2	2"	G	2.10	2.70	3.30	4.00	4.80	5.60	6.50	7.50	8.60
102P2		A	1.20	1.60	2.00	2.40	2.80	3.30	3.90	4.40	5.00

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM						
			150	175	200	225	250	275	300
	3"	G	2.50	3.00	4.10	5.30	6.70	8.30	10.10
		A	1.90	2.40	3.30	4.30	5.50	6.90	8.50

1) Pressure loss data are derived from valves independently tested by CIT, Fresno, CA.

## SPECIFYING INFORMATION

MODEL	SIZE
100P - 100 internal bleed and flow control valve	1 - 1" size 1.5 - 1½" size
102P - 102 anti-contamination filter valve	2 - 2" size 3 - 3" size

Example: A 100P 1" valve with internal bleed and flow control = **100P1**

## ADDED FEATURES

- Flow control allows precise flow adjustment and manual shutoff
- Buna-N valve seat seal
- Encapsulated injection-molded solenoid with a captive hex plunger
- Positive O-ring seal on inlet plug prevents leaks without damaging seal threads
- Molded-in and anchored studs allow positive bonnet attachment and removal
- Brass flow control stem on 2- and 3-inch models
- Easily serviced without removal from the system
- Five-year warranty

## OPERATING SPECIFICATIONS

- Flow range: 5-300 GPM
- Pressure range: 10-220 psi; 10-100 psi (102 models)

## ELECTRICAL SPECIFICATIONS

- Solenoid: 24 V ac
- Inrush volt-amp: 24 V ac-9.6 VA
- Inrush current: .4 amp (102 models: .48 amp)
- Holding volt-amp: 24 V ac-4.8 VA
- Holding current: .2 amp (102 models: .24 amp)

## MODELS

Model	Description
100P1	1" internal bleed, flow control
100P1.5	1½" internal bleed, flow control
100P2	2" internal bleed, flow control
100P3	3" internal bleed, flow control
102P1	1" anti-contamination filter
102P1.5	1½" anti-contamination filter
102P2	2" anti-contamination filter
102P3	3" anti-contamination filter

## DIMENSIONS

- **100P1:** H: 6 ¾", W: 3 ⅝", D: 4 ¾"
- **102P1:** H: 7 ½", W: 5", D: 4 ¾"
- **100P1.5:** H: 7 ¼", W: 3 ⅝", D: 4 ¾"
- **102P1.5:** H: 7 ½", W: 5", D: 4 ¾"
- **100P2:** H: 9 ½", W: 6 ⅛", D: 7 ¾"
- **102P2:** H: 10 ¼", W: 7 ½", D: 7 ¾"
- **100P3:** H: 10 ¾", W: 6 ⅛", D: 8 ¼"
- **102P3:** H: 11 ½", W: 7 ½", D: 8 ½"

## OPTIONAL ACCESSORIES\*

- OmniReg® 5-30 psi regulator (OMR-30)
  - OmniReg 5-100 psi regulator (OMR-100)
  - Recycled-water solenoid kit (RW60-KIT); purple solenoid with purple warning tag
  - DC latching solenoid (DCL)
- Note: Maximum pressure for a valve that utilizes latching solenoid is 120 psi.*
- Weatherproof gauge (SPK-100)

\* Optional accessories are field-installable.  
Must specify separately if required.