

# Irritrol®



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 EPDM double-beaded diaphragm and an anti-contamination design for dirty water applications (available on all 102 Models).

## 100 SERIES

CENTURY PLUS &  
102 ANTI-CONTAMINATION MODEL

### **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



102P1



ELECTRIC GLOBE/ANGLE  
1", 1½", 2" AND 3" PLASTIC MODELS

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## ADDED FEATURES

- Flow control allows precise flow adjustment and manual shutoff
- EPDM 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)

## SPECIFYING INFORMATION

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

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

## 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.*

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

† Not compatible with 102 anti-contamination models

## PRESSURE LOSS DATA

		Flow Rate - GPM						
MODEL	SIZE	GLOBE ANGLE	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

  

		Flow Rate - GPM									
MODEL	SIZE	GLOBE ANGLE	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

  

		Flow Rate - GPM									
MODEL	SIZE	GLOBE ANGLE	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

  

		Flow Rate - GPM							
MODEL	SIZE	GLOBE ANGLE	150	175	200	225	250	275	300
102P3	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.

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 EPDM diaphragm provides a leak-proof seal

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