

# Irritrol®



Constructed of heavy-duty, glass-reinforced nylon, high grade stainless steel, brass and EPDM rubber materials, the 100 Series scrubber valves resist clogging. The patent-pending continuous scrubbing mechanism actively fights dirt, algae and other particles from disrupting the functionality of the valve. The 100 Series scrubber valves are true dirty water irrigation valves, able to handle the harsh chemicals found in dirty water systems, such as chlorines, chloramines and water treated with ozones.

## 100S SERIES

### CENTURY PLUS SCRUBBER VALVE

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#### INNOVATIVE CONTINUOUS SCRUBBING FEATURE

Actively cleans the metering device for consistent valve operation

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

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

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#### FABRIC-REINFORCED EPDM DIAPHRAGM AND EPDM SEAT SEAL

Designed to operate in virtually all water applications

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#### RUGGED INTERNAL PLASTIC AND STAINLESS STEEL PARTS

Scrubber fan, nut and metering system chlorine and chemical resistant

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#### COMPLETELY SERVICEABLE AND RETROFITTABLE

Diaphragm assembly may be replaced or retrofitted to previous models

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#### 220 PSI PRESSURE RATING

Prevents water hammer and system damage in high-pressure installations

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#### INTERNAL AND EXTERNAL BLEED (FLUSH MODE)

Manual operation

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#### EXTERNALLY REMOVABLE SELF-CLEANING METERING SYSTEM

Provides consistent performance in recycled-water applications

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#### ACCEPTS OMNIREG® MODULAR PRESSURE REGULATOR

Ensures consistent performance

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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 diaphragm and 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
- Easily serviced without removal from the system
- Five-year warranty

## OPERATING SPECIFICATIONS

- Flow range: 5-300 GPM
- Pressure range: 20-220 psi

## ELECTRICAL SPECIFICATIONS

- Solenoid: 24 V ac
- Inrush volt-amp: 24 V ac-9.6 VA
- Inrush current: .4 amp
- Holding volt-amp: 24 V ac-4.8 VA
- Holding current: .2 amp

## SPECIFYING INFORMATION

MODEL	SIZE	KIT
100P - 100 internal bleed and flow control valve	1 - 1" size 1.5 - 1½" size 2 - 2" size 3 - 3" size	KIT

Example: A 100P 2" scrubber valve with internal bleed and flow control = **100P2-S**

## MODELS

Model	Description
100P1-S	1" internal bleed, scrubber valve
100P1.5-S	1½" internal bleed, scrubber valve
100P2-S	2" internal bleed, scrubber valve
100P3-S	3" internal bleed, scrubber valve
100P1-S-KIT	1" scrubber diaphragm kit
100P1.5-S-KIT	1½" scrubber diaphragm kit
100P2-S-KIT	2" scrubber diaphragm kit
100P3-S-KIT	3" scrubber diaphragm kit

## DIMENSIONS

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

## 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)

## PRESSURE LOSS DATA

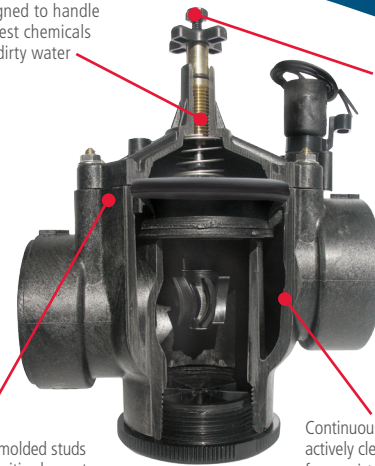
MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM					
			5	10	20	30	40	50
100P1-S	1"	A	4.35	4.97	2.51	5.21	9.06	13.49
		G	4.52	4.84	2.58	5.10	8.97	13.97

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM									
			20	30	40	50	60	70	80	90	100	110
100P1.5-S	1.5"	A	0.92	1.33	2.33	3.53	4.93	6.64	8.99	11.20	13.50	16.62
		G	0.95	1.35	2.65	3.99	5.84	7.89	10.22	13.03	16.12	19.82

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM								
			80	90	100	110	120	130	140	150	175
100P2-S	2"	A	2.80	3.80	4.50	5.50	6.30	7.60	8.70	10.30	13.10
		G	3.54	4.45	5.40	6.68	8.04	9.26	10.95	12.21	15.65

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM						
			150	175	200	225	250	275	300
100P3-S	3"	A	2.55	3.10	4.50	5.40	7.10	8.40	10.15
		G	2.97	4.04	5.37	6.35	7.99	9.35	11.26

Fabric-reinforced EPDM diaphragm and EPDM seat designed to handle the harshest chemicals found in dirty water systems.



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

Internally molded studs provide positive bonnet attachment.

Continuous scrubbing turbine actively cleans the metering device for consistent valve operation in dirty water applications.

We reserve the right to improve our products and make changes in the specifications and designs without notice and without incurring obligation. Products depicted in this brochure are for demonstration purposes only. Actual products offered for sale may vary in design and features.