

100-S SERIES

ELECTRIC
GLOBE/ANGLE

CENTURY PLUS SCRUBBER VALVE

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



Constructed of heavy-duty, glass-reinforced nylon, stainless steel, brass and EPDM rubber materials, the 100 Series scrubber valves resist clogging and feature a patent-pending continuous scrubbing mechanism to actively fight 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.

KEY FEATURES & BENEFITS

CONTINUOUS SCRUBBING FEATURE

Actively cleans the metering device for consistent valve operation

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

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

FABRIC-REINFORCED EPDM DIAPHRAGM AND EPDM SEAT SEAL

Designed to operate in virtually all water applications

RUGGED INTERNAL PLASTIC AND STAINLESS STEEL PARTS

Scrubber fan, nut and metering system chlorine and chemical resistant

COMPLETELY SERVICEABLE AND RETROFITTABLE

Diaphragm assembly may be replaced or retrofitted to previous models

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

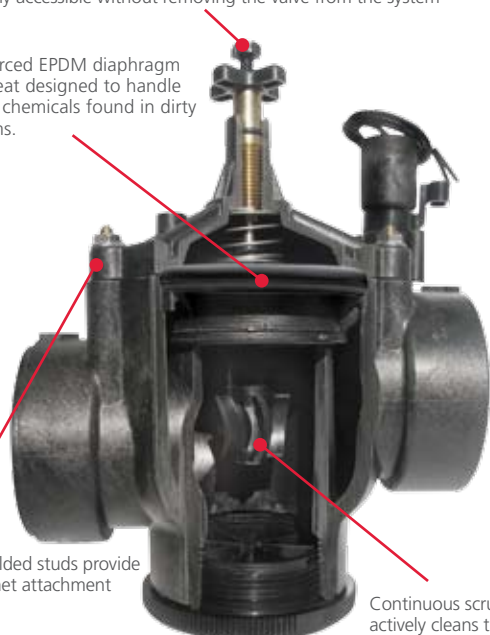
ACCEPTS OMNIREG® MODULAR PRESSURE REGULATOR

Ensures consistent performance

NEXT GENERATION SCRUBBER VALVE

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

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



Internally molded studs provide positive bonnet attachment

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

FRICTION LOSS DATA

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM						
			5	10	20	30	40	50	
100P1-S	1"	A	4.00	3.85	4.10	5.50	8.10	15.50	
		G	4.80	4.20	4.50	5.68	10.50	17.10	

MODEL	SIZE	GLOBE ANGLE	Flow Rate - GPM								
			30	40	50	60	70	80	90	100	110
100P1.5-S	1½"	A	2.15	3.10	4.50	6.70	8.70	11.50	14.50	18.00	20.50
		G	2.35	3.55	5.57	7.59	10.50	13.35	16.45	20.70	21.76

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

SPECIFYING INFORMATION

100P - XX-S

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

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

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 (2" and 3" minimum pressure 20 psi)

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-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
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*

- IBOC300-9V battery-operated "on valve" controller
- 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)
- Weatherproof gauge (SPK-100)

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