

**TORO®**

# P-220 SERIES VALVES

**WATER  
SMART®**

For proven reliability in the field, the Toro® P-220 Series valves deliver. Constructed of heavy-duty, glass-filled nylon material, these valves are ready to consistently withstand pressures up to 220 psi.

## FEATURES & BENEFITS

### Durable Glass-Filled Nylon

Ensures the P-220 can operate at pressures up to 220 psi.

### Precise Pressure Control Option

Compact EZReg® dial-design technology can be factory or field installed and does not require the removal of the solenoid.

### External Manual Bleed

Keeps valve box dry and easy to use.

### Standard Schrader Valve at Outlet

Simple verification of downstream pressure.

### Optional Spike Guard™ Solenoid\*

Reduces wire size requirements, allows twice as many valves to run simultaneously on a transformer, and lowers power costs with a lightning rating exceeding 20,000 volts.

### Filter Screen On 2" and 3" Models

Allows for upstream filtration of water to ensure no clogging occurs inside the valve.

### Flow Control Handle

Adjusts the flow of each zone on a system.



Effluent  
Options  
Available



Pressure  
Regulation



DC Latching  
Solenoid  
Option

\*Not compatible with 2-wire systems.



**Pressure Regulator**  
The EZReg® module can regulate flows as low as 5 gpm with a 1" valve and only requires 10 psi differential to operate. The pressure regulator can be easily and quickly installed—even under pressure—with no danger of water geysers.

## SPECIFICATIONS

### Operational

- Flow Range:
  - 1": 5 to 50 gpm
  - 1 1/2": 30 to 110 gpm
  - 2": 80 to 150 gpm
  - 3": 130 to 300 gpm
- Operating Pressure
  - 1" & 1 1/2" Models: 10 to 220 psi
  - 2" & 3" Models: 20 to 220 psi
- Pressure Regulating:
  - Outlet (EZR-30): 5 to 30 psi ± 3
  - Outlet (EZR-100): 5 to 100 psi ± 3
  - Minimum flow requirement of 5 gpm
- Minimum Pressure Differential (between inlet and outlet) for Pressure Regulation: 10 psi
- Body Styles:
  - Globe/Angle – 1", 1 1/2", 2" & 3" female threads
- 118-5982 Solenoid: 24 Vac (50/60 Hz) Standard
  - Inrush: 60 Hz, 0.4 amps
  - Holding: 60 Hz, 0.2 amps

### Options Available

- EZReg®, 5–30 psi Regulator Module (EZR-30)
- EZReg®, 5–100 psi Regulator Module (EZR-100)
- Effluent Water Solenoid Assembly, 24 Vac, 60 Hz; and Warning Tag (EFF-KIT-60HZ)
- Standard Solenoid, 24 Vac, 50/60 Hz (118-5982)
- Potted DC Latching Solenoid Assembly (DCLS-P)
- Spike Guard™ Solenoid, 24 Vac, 50/60 Hz (SGS-12)

### Dimensions

- 1": 6 3/4" H x 3 5/8" W
- 1 1/2": 7 1/4" H x 3 5/8" W
- 2": 9 1/2" H x 6 1/8" W
- 3": 10 3/4" H x 6 1/8" W

### Warranty

- Five years

## P-220 SERIES MODEL LIST

Model	Description	
<b>WITH PRE-INSTALLED LATCHING SOLENOIDS</b>		
P220-26-04	1" NPT, Globe/Angle	P220-26-94
P220-26-06	1 1/2" NPT, Globe/Angle	P220-26-96
P220-26-08	2" NPT, Globe/Angle	P220-26-98
P220-26-00	3" NPT, Globe/Angle	P220-26-90
<b>PRESSURE-REGULATED WITH EZ REG®</b>		
<b>WITH PRE-INSTALLED LATCHING SOLENOIDS</b>		
P220-27-04	1" NPT, Globe/Angle	P220-27-94
P220-27-06	1 1/2" NPT, Globe/Angle	P220-27-96
P220-27-08	2" NPT, Globe/Angle	P220-27-98
P220-27-00	3" NPT, Globe/Angle	P220-27-90

## Additional Features

- ✓ Tough glass-filled nylon and stainless steel construction
- ✓ No external tubing for either pressure-regulating model
- ✓ Self-aligning bonnet to ensure correct installation
- ✓ Self-cleaning, stainless steel metering rod
- ✓ Low-flow capability down to 5 gpm with EZReg®
- ✓ Low-power requirement for longer wire runs
- ✓ EPDM diaphragm and seat seal

## P-220 SERIES PRESSURE LOSS DATA

Size	Config.	gpm Flow																						
		5	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	180	200	225	250	275	300	
1"	Globe	4.00	4.20	3.20	4.10	7.20																		
	Angle	4.00	4.20	3.10	2.70	4.80																		
1 1/2"	Globe				1.60	2.30	3.60	5.20	7.00	9.20	11.20	13.60	16.40											
	Angle				1.30	1.60	2.80	4.00	5.50	7.10	8.90	10.90	13.50											
2"	Globe										2.10	2.70	3.30	4.00	4.80	5.60	6.50	7.50	8.70					
	Angle										1.20	1.60	2.00	2.40	2.80	3.30	3.90	4.40	5.20					
3"	Globe																	2.50	3.00	4.10	5.30	6.70	8.30	10.10
	Angle																	1.90	2.40	3.30	4.30	5.50	6.90	8.50

*Note: For optimum performance when designing a system, be sure to calculate total Pressure Loss to ensure sufficient downstream pressure. For optimum regulation performance, size regulating valves toward the higher flow ranges. Flow rates are recommended not to exceed 5 psi loss.*

## Specifying Information—P-220 Series Valves

P220-2X-X-X			
Model	Activation Type	Solenoid	Size
<b>P220</b>	<b>2X</b>	<b>X</b>	<b>X</b>
P220—P-220 Series Plastic Valve	26—NPT, Electric 27—NPT, Pressure-regulated EZR-100 (Standard)	0—Standard Solenoid 9—DC Latching Solenoid	4—1" 6—1 1/2" 8—2" 0—3"

**Example:** A 1" P-220 Series plastic electric, pressure-regulating valve would be specified as: **P220-27-04**



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The Toro Company • Irrigation Business • 5825 Jasmine St. • Riverside, CA • 92504 • 877-345-8676 • P/N 19-1125-IRC

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