

P-220 Series

Valves

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 (factory or field installed - no need to remove solenoid).

Internal And External Manual Bleed

Keeps valve box dry and easy to use.

Schrader Valve Pre-Installed

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" & 3" Models

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



Water Management Highlight



Pressure Regulator

The EZReg® module can regulate with flows of only 5 GPM with a 1" valve and it 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.



Effluent
Options
Available



Pressure
Regulation



DC Latching
Solenoid
Option



Specifications

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

Operating Specifications

- Flow Range:
 - 1": 5 to 40 GPM
 - 1 1/2": 30 to 100 GPM
 - 2": 80 to 180 GPM
 - 3": 150 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 $\pm$ 3
 - Outlet (EZR-100): 5 to 100 psi $\pm$ 3
- 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

Additional features

- Tough glass-filled nylon and stainless steel construction
- Internal and External bleed
- Pressure regulates in electric or pressure-regulating models
- No external tubing for either pressure-regulating model
- Standard, built-in Schrader-type valve for downstream pressure verification

Additional features (continued)

- Flow control independent of solenoid
- 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

Options Available

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

Warranty

- Five years

P-220 Series Model List

Model	Description	With Pre-Installed Latching Solenoids
• P220-26-04	1" In-line, Angle	• P220-26-94
• P220-26-06	1 1/2" In-line, Angle	• P220-26-96
• P220-26-08	2" In-line, Angle	• P220-26-98
• P220-26-00	3" In-line, Angle	• P220-26-90
Pressure-Regulated With EZ Reg®		With Pre-Installed Latching Solenoids
Model	Description	
• P220-27-04	1" In-line, Angle	• P220-27-94
• P220-27-06	1 1/2" In-line, Angle	• P220-27-96
• P220-27-08	2" In-line, Angle	• P220-27-98
• P220-27-00	3" In-line, Angle	• P220-27-90

P-220 Series Friction 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																			
1½"	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 friction 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—P220

P220-2X-X-X			
Model	Activation Type	Solenoid	Size
P220	2X	X	X
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" (25mm) 6—1 1/2" (40mm) 8—2" (50mm) 0—3" (80mm)
Example: A 1" (25mm) P-220 Series plastic electric, pressure-regulating valve would be specified as: P220-27-04			

