- **25 mm, 40 mm, 50 mm, 80 mm, BSP (Female)**
- **Electric Models**
- **Pressure-regulating option**
- **Globe, Angle**

For proven reliability in the field, the Toro® P220 Series valves deliver. Constructed of heavy-duty, glass-filled nylon material, these valves are ready to consistently withstand pressures up to 1500 kPa.

Features & Benefits

Durable Glass-Filled Nylon
Ensures the P220 can operate at pressures up to 1500 kPa.

Precise Pressure Control Option
Compact EZReg® dial-design technology (field installed - no need to remove solenoid).

Internal And External Manual Bleed
Internal bleed keeps valve box dry and easy to use.

Schrader Valve Pre-Installed
Simple verification of downstream pressure.

Filter Screen on 50 mm and 80 mm Models
Allows for upstream filtration of control water to reduce risk of clogging inside the valve.

Water Management Highlight

Pressure Regulator
The EZReg® module can regulate with flows of only 20 Lpm with a 25mm valve and it only requires 70 kPa differential to operate. The pressure regulator can be easily and quickly installed—even under pressure, with no danger of water geysers.

Specifications

Dimensions

- 25 mm: 171 x 92 mm H x W
- 40 mm: 184 x 92 mm H x W
- 50 mm: 241 x 156 mm H x W
- 80 mm: 273 x 156 mm H x W

Operating Specifications

- Flow Range:
  - 25 mm: 20-140 Lpm
  - 40 mm: 120-400 Lpm
  - 50 mm: 300-650 Lpm
  - 80 mm: 600-1100 Lpm
- Operating Pressure:
  - Electric: 70-1500 kPa (25, 40 mm models)
  - Electric: 140-1500 kPa (50, 80 mm models)
- Minimum pressure differential (between inlet and outlet) for pressure regulation: 70 kPa
- Burst pressure safety rating: 5000 kPa
- Body styles:
  - Globe/Angle: 25, 40, 50, 80 mm female threads
- 588403 Solenoid: 24 VAC (50 Hz)
  - Inrush: 50 Hz: 0.40 amps
  - Holding: 50 Hz: 0.2 amps

Options Available

- EZR-30 - EZReg, 30-200 kPa Regulator Module
- EZR-100 - EZReg, 30-700 kPa Regulator Module
- DCLS-P - Potted DC Latching Solenoid Assembly (max. pressure 820 kPa)

Additional features

- Tough glass-filled nylon and stainless steel construction
- Internal and External bleed
- Standard, built-in Schrader-type valve for downstream pressure verification
- Flow control independent of solenoid
- Self-aligning bonnet to ensure correct installation
- Self-cleaning, stainless steel metering rod
- Low-flow capability down to 20 Lpm with EZReg

Warranty

- Five years

P-220 Series BSP Thread Model List

Model	Description
P220-23-54	Electric, In-Line 25 mm BSP Plastic Valve, 24V 50 Hz Solenoid
P220-23-56	Electric, In-Line 40 mm BSP Plastic Valve, 24V 50 Hz Solenoid
P220-23-58	Electric, In-Line 50 mm BSP Plastic Valve, 24V 50 Hz Solenoid
P220-23-50	Electric, Angle 80 mm BSP Plastic Valve, 24V 50 Hz Solenoid
P220-23-94	Electric, Angle 25 mm BSP Plastic Valve, DC Latching Solenoid
P220-23-96	Electric, Angle 40 mm BSP Plastic Valve, DC Latching Solenoid
P220-23-98	Electric, Angle 50 mm BSP Plastic Valve, DC Latching Solenoid
P220-23-90	Electric, Angle 80 mm BSP Plastic Valve, DC Latching Solenoid

P-220 Series Valve Friction Loss Data – kPa

Size	Configuration	Flow Rate Lpm																							
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	800	900	1000	1100
25 mm	Globe	28	28	24	22	24	31	43																	
	Angle	28	29	25	21	18	20	28																	
40 mm	Globe						12	14	18	23	28	43	62	81	104										
	Angle						9	10	13	17	22	34	48	65	85										
50 mm	Globe												14	20	26	33	40	50	54	58					
	Angle												8	12	15	19	24	29	32	34					
80 mm	Globe																		18	19	22	32	41	52	65
	Angle																		14	15	18	26	34	43	54

Shading indicates flow range.

Flow rates are recommended not to exceed 35 kPa loss.

For optimum regulation performance, size regulating valves toward the higher flow ranges.