

25, 40, 50 and 80 mm Electric Models

With superior regulation and a 1515 kPa rating, the P-220 Series gives you 'brass strength' at a value price.

Key Features

- 1515 kPa maximum operating pressure
- Globe/Angle configuration
- Pressure control option with compact EZReg[®] dial-design (serviceable under pressure — no need to shut down system)
- Pressure regulates in electric and manual modes
- Tough, double-beaded, fabric-reinforced rubber diaphragm rated at 5200 kPa burst pressure
- Self-cleaning, stainless-steel metering rod
- Extended 5-year warranty

Additional Features

- Construction: Plastic- Tough 33% glass-filled (GFN) and stainless steel
- Rugged, reinforced bonnet design withstands tough and high-pressure applications
- Forward-flow design for more precise regulation
- Standard, built-in Schrader-type valve for downstream pressure verification
- No external tubing for either-electric or pressure-regulating models
- Internal downstream manual bleed keeps valve box dry and allows for manually checking pressure regulation.
- External manual bleed for system flushing
- Manual flow control: adjustable to zero-flow
- Flow control independent of solenoid
- Self-aligning bonnet to ensure correct installation
- Brass flow control stem — 50 mm and 80 mm models

- Positive O-ring seal on inlet plug prevents leaks
- Low-flow capability down to 20 LPM with EZReg module
- Easily serviced without system removal
- Proven, encapsulated, injection-moulded solenoid with captured hex plunger and spring
- Low-power requirement for longer wire runs
- 45cm lead wires for easy installation

Options Available

- DC Latching solenoid assembly — DCLS-P
- 24 V DC solenoid assembly (R576804)
- 24 V.a.c. 50 Hz solenoid assembly (588403)
- EZR-30 — 30–200 kPa pressure-regulation module
- EZR-100 — 30–700 kPa pressure-regulation module

External manual bleed screw

Ergonomic, manual flow control handle (removable)

EZReg[®] pressure-regulating module or port plug

Standard Schrader valve for operating pressure readings

Anchored studs and nut design

Tough GFN bonnet for 1515 kPa rating

Globe/angle body for 25 mm to 80 mm sizes

Aerospace locknut

Solenoid with captured hex plunger and spring

Debris skirt

Internal manual bleed

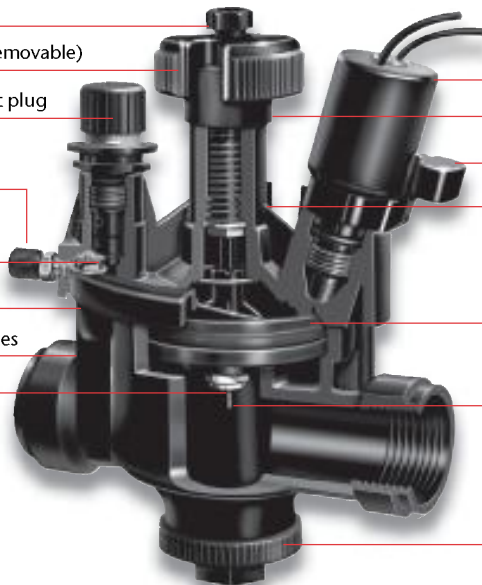
Spare nut

Brass flow control stem on 50 mm and 80 mm (not illustrated)

Fabric reinforced 5200 kPa rated, double-beaded diaphragm

Self-cleaning, stainless-steel metering-rod

O-ring seal cap plug



P-220 Series

Specifications

- Recommended flow range
 - 25 mm — 20–114 LPM
 - 40 mm — 114–265 LPM
 - 50 mm — 300–530 LPM
 - 80 mm — 568–852 LPM
- Operating pressure:
 - Electric — 70–1515 kPa
 - Pressure regulating models:
 - Outlet: EZR-30
30–200 kPa (± 20 kPa)
 - Outlet: EZR-100
30–700 kPa (± 20 kPa)
 - Inlet: 100–1515 kPa
 - Minimum pressure differential (between inlet and outlet): 70 kPa for EZReg operation
- Body styles:
 - Globe/angle valve, female-threads BSP
- Solenoid: 50 Hz 24 V.a.c.
 - Inrush: 0.3 amps, 7.2 VA
 - Holding: 0.2 amps, 4.8 VA

Dimensions (H x W)		
Model	H	W
25 mm	171 mm	92 mm
40 mm	184 mm	92 mm
50 mm	241 mm	156 mm
80 mm	273 mm	156 mm

P-220 Series



Specifying Information – P-220			
Type	Configuration	Solenoid	Size
P220— P-220 Series Plastic Valve	23— BSP, Electric	5—50 Hz Solenoid	4—25 mm 6—40 mm 8—50 mm 0—80 mm
For Example: When specifying a 25mm (1") P-220 Series plastic electric valve with a 50 Hz solenoid BSP threads, and pressure regulation, you would specify: P220-23-54 and EZR-100			



Pressure Regulation

An accurate and visible adjustable dial, coupled with a forward-flow valve design allows the P220 Series with the EZReg module to regulate with flows of only 20 LPM (25 mm valve) and requires only 70 kPa differential to operate. The pressure regulator is perfect for retrofit projects and can be easily and quickly installed (even under pressure) with no danger of water geysers from the removed solenoid area or valve opening. The EZReg regulates in the manual mode should power be unavailable. A standard, Schrader-type valve permits quick verification of downstream operating pressure.

P-220 Series Friction Loss Data – LPM Flow																								
Size	Configuration	Flow – LPM																						
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100
25 mm (1")	Globe	28	29	25	25	26	32	43	55	69	82													
	Angle	28	29	25	21	20	31	29	38	49	61													
40 mm (1.5")	Globe						12	14	18	23	28	43	62	85	111									
	Angle						9	10	13	17	22	34	48	65	85									
50 mm (2")	Globe											14	20	25	32	40	48	54						
	Angle											8	12	15	19	24	29	32						
80 mm (3")	Globe																	18	24	32	41	52	65	
	Angle																	14	19	26	34	43	54	

Light grey shading indicates recommended flow range.
 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 35 kPa pressure loss.