

A true dirty water irrigation valve, able to handle chlorine and other chemicals found in reclaimed and other non-potable water systems. Constructed of heavy-duty, glass-filled nylon and EPDM rubber materials, these valves resist clogging and feature a patent-pending active scrubbing mechanism (ACT™ System) to actively fight sand, algae and other particles from blocking the proper metering through the valve.

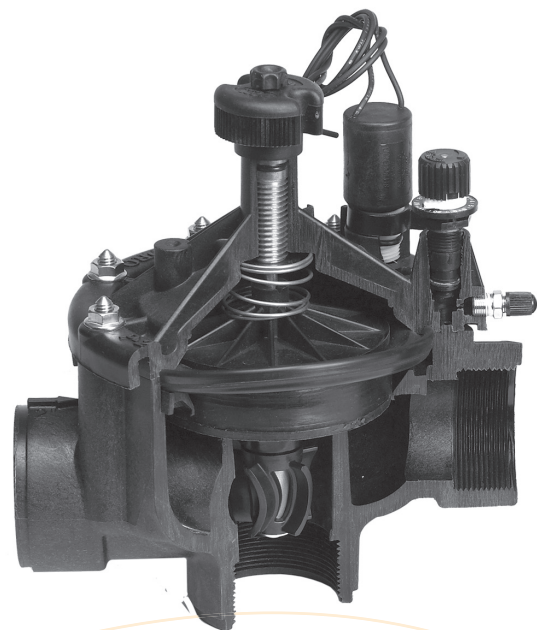
- 50, 80mm
- Globe, Angle
- Electric
- Pressure regulating

**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, serviceable under pressure
- Tough, double-beaded, fabric-reinforced rubber diaphragm rated at 5200 kPa burst pressure
- Self-cleaning, stainless-steel metering rod
- Extended 5-year warranty
- Active Cleansing Technology (ACT™)  
Industry's first active scrubber valve cleans continuously whereas competitive valves only clean on opening and closing.

**Dimensions (H x W)**

Model	H	W
50 mm	241 mm	156 mm
80 mm	273 mm	156 mm



## 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 setting 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
- Positive O-ring seal on inlet plug prevents leaks
- Easily serviced without system removal
- Proven, encapsulated, injection-moulded solenoid with captured hex plunger and spring
- Low-power requirement for longer wire runs
- 45cm (18") lead wires for easy installation

## Options Available

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

## Specifications

- Recommended flow range  
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 VAC
  - Inrush: 0.3 amps, 7.2 VA
  - Holding: 0.2 amps, 4.8 VA



### The P-220S Scrubber

The new P-220S Scrubber Valves have the patent-pending ACT™ System - Active Cleansing Technology - in which the durable turbine is constantly rotating to clean the metering/filtration area. This continual cleaning ensures that dirt, algae, chlorines, chloramines and water treated with ozone will not impede valve performance.

### Specifying Information – P-220 Scrubber Series Valves

		X	220S	XX	X	X
Type	Configuration	Solenoid			Size	
P220S— P-220 Scrubber Series Valve	23—BSP, Electric	5—50 Hz Solenoid			8—50 mm 0—80 mm	
<p>For Example: When specifying a 25mm (1") P-220 Scrubber series electric valve with a 50 Hz solenoid BSP threads, and pressure regulation, you would specify: <b>P220S-23-54 and EZR-100</b></p>						

### P-220 Scrubber Series Friction Loss Data – LPM Flow

Size	Configuration	Flow – LPM													
		200	250	300	350	400	450	500	550	600	700	800	900	1000	1100
50 mm (2)	Globe Angle			14 8	20 12	25 15	32 19	40 24	48 29	54 32					
80 mm (3)	Globe Angle									18 14	24 19	32 26	41 34	52 43	65 54

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.