

P-150 Series Plastic Valves

- 1½" and 2", BSP
- Electric Models

1½" and 2" in-line globe/angle valves for light commercial applications. The P-150 Series valves are the "value" work horses of plastic valves.



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Toro.com

Features & Benefits

Heavy-duty glass-filled nylon (GFN) and stainless-steel construction

Globe/Angle configuration

Rated at 10 Bar (150 psi) with flows from 20 to 568 LPM (5 to 150 GPM)

Filter-controlled Water

To resist contamination of solenoid port. Filter serviceable from top of valve.

Precise 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

Water Management Highlight



Pressure Regulator

The EZReg® module can regulate with flows of only 19 l/min (0,3 Bar) with a 25mm (1") valve and it only requires 0,7 Bar (10 psi) differential to operate. The pressure regulator can be easily and quickly installed—even under pressure, with no danger of water geysers.



Specifications

Dimensions

- Body styles:
- Globe/angle valve: 1½" and 2" (40mm and 50mm) BSP female threads
- Dimensions:
- 1½": 184mm x 92mm (7¼" x 3⅝") H x W
- 2": 241mm x 156mm (9½" x 6⅛") H x W

Operating Specifications

- Solenoid: 50Hz (24 VAC)
- Inrush volt-amp: 50Hz (24 VAC) - 7,2 VA
- Inrush current: .3 amps
- Holding volt-amperes: 50Hz (24 VAC) - 4,8 VA
- Holding current: .2 amps
- Flow range: 18,9-567,8 LPM (5-150 GPM)
- Pressure range: 1,4-10,3 Bar (20-150 PSI)

Additional Features

- Non-rising, manual flow control handle; adjustable to zero flow
- Manual internal bleed
- Rugged Santoprene, double beaded diaphragm
- Forward flow design for precise pressure regulation
- No external tubing for either electric or pressure regulating models
- Encapsulated solenoid with captured hex plunger assembly
- Purple solenoid models available for effluent applications
- Positive O-ring seal on inlet plug
- Unique 3-way SS bonnet screws accept Phillips or hex driver tools
- Slow closing design reduces water hammer

Options Available

- EZR-30 - EZReg, 0,3-2,1 Bar (5-30 psi) Regulator Module
- EZR-100 - EZReg, 0,3-7,0 Bar (5-100 psi) Regulator Module
- EFF-KIT-50Hz - Effluent Water (Lavender) Solenoid Assembly (24 VAC, 50 Hz) and Warning Tag
- 118-5983 - 24 VAC Solenoid Assembly, 50 Hz, 18" (457mm) Leads, Captive Plunger
- DCLS-P - Potted DC Latching Solenoid Assembly

Warranty

- Five years

P-150 Series Plastic Valve Model List

| Model | Description |
|---------------|---|
| EU-P150-23-56 | Electric, Globe/Angle, 1½" BSP Plastic Valve, 50 Hz Solenoid |
| EU-P150-23-58 | Electric, Globe/Angle, 2" BSP Plastic Valve, 50 Hz Solenoid |
| EU-P150-23-96 | Electric, Globe/Angle, 1½" BSP Plastic Valve, DCLS-P Solenoid |
| EU-P150-23-98 | Electric, Globe/Angle, 2" BSP Plastic Valve, DCLS-P Solenoid |

Note: all w/o Nozzle

P-150 Series Friction Loss Data—Metric (LPM Flow)

| Size | Configuration | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.5" | Globe Angle | 0,22 | 0,21 | 0,21 | 0,17 | 0,18 | 0,20 | 0,31 | 0,46 | | | | | | | |
| | | 0,21 | 0,21 | 0,22 | 0,15 | 0,13 | 0,13 | 0,19 | 0,26 | | | | | | | |
| 2" | Globe Angle | | | | | 0,22 | 0,22 | 0,20 | 0,19 | 0,26 | 0,34 | 0,42 | 0,42 | 0,52 | 0,62 | 0,74 |
| | | | | | | 0,18 | 0,17 | 0,14 | 0,13 | 0,16 | 0,24 | 0,24 | 0,26 | 0,32 | 0,37 | 0,43 |

Flow rates are recommended not to exceed 0,35 Bar loss. Values shown in Bar.

For kPa values, multiply tabular values by 100. For Kg/cm² values, multiply tabular values by 1,02.

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.

Specifying Information – P-150 Series Plastic Valves

| P150-23-X-X | | | |
|---------------------------------|------------------|---|---------------|
| Type | Configuration | Solenoid | Size |
| P150 | 23 | X | X |
| P150—P-150 Series Plastic Valve | 23—BSP, Electric | 5—50 Hz Solenoid 6—Less Solenoid 9—DCLS-P | 6—1½" 8—2" |

Example: A 50 mm (2") P-150 Series Plastic Valve with BSP threads and 50 Hz solenoid, would be specified as: P150-23-58