

# 6PS<sup>evo</sup>400 Polymer Feed System



- Peristaltic pump design does not have valves that can clog requiring maintenance.
- Robust (IP66) Watertight Polymer Pump.
- Local and Remote-Control Operation.
- Solution Concentration Ratio Control.
- Integrated Batch System Program.
- Solution System Flush Control.
- State of the Art Microprocessor Controller, with touchscreen.
- Proven, Patented, Motorless Activation.
- One-Gallon Stainless Steel Blending Chamber.
- Thermoplastic Piping for superior corrosion resistance.
- Stainless Steel Frame can be floor or wall mounted. Extended 16" legs are available.
- Two Year Warranty.

With over 25 years of experience, our proven Motorless Polymer Activation Apparatus provides the high energy needed to activate all types of liquid polymers. The apparatus activates the polymer through a patented motor-less activation system. It injects the polymer into the dilution water stream and immediately makes the solution flow through a low pressure, high energy, activation nozzle.

The activated polymer solution flows through a patented self-cleaning sight tube before it exits the feeder. The solution causes the patented cleaning assembly to operate continuously. The sight tube allows the operator to see that the feeder is operating properly.

The use of the Watson Marlow QDOS 20 PU metering pump allows for the consolidation of models and maximum application flexibility. The standard polymer feed system offers a neat polymer feed range of 0.001 to 7.67 gph. The maximum flow is programmable. The peristaltic pump design does not have valves that can clog requiring maintenance, it is self-priming even against maximum line pressure.

## Engineering Specifications:

**Maximum Working Pressure:**  
65 psig (4.5 bar)

**Dilution Water Flow Rate:**  
2.0 to 400 gph (7.57 to 1514 l/h)

**Polymer Flow Rate:**  
0.001 to 7.67 gph (0.1 to 484 ml/min)

**Process Connections:**

Dilution Water Inlet .. True Union PVC Ball Valve 1/2"  
Polymer Inlet ..... True Union PVC Ball Valve 1/2"  
Solution Discharge .... True Union PVC Ball Valve 1/2"

**Operating Voltage:**  
120VAC 60hz 1ph (3 amps)

**Programmable Inputs/Outputs:**  
8 Digital Inputs; 6 Relay Output; 4 Analog Inputs; 2 Analog Outputs

**Overall Dimensions:**  
22" W x 18" D x 32" H (56 W x 46 D x 81 H cm)

**Product Weight:**  
88 lbs (40 kgs)

**Shipping Weight:**  
110 lbs (50 kgs)

## Materials of Construction:

**Wetted Components:**

**Dilution Components:**

Ball Valves..... PVC  
Piping ..... Schedule 80 PVC  
Motor Operated Valve..... SS 316  
Valve automatically closes if power is lost.  
Electronic Flowmeter ..... SS 316; PEEK  
Globe Valve..... Stainless Steel 316L  
Tubing..... Polyethylene  
Tube Fittings ..... Polypropylene

**Non-Wetted Components:**

**Skid:**  
Stainless Steel 304 Plate #4 Brushed Finish

**Electrical Enclosure:**  
Polycarbonate

**Pump Enclosure:**  
Glass Filled PPE / PS

**Polymer Components:**

Ball Valves ..... PVC  
Calibration Column ..... PVC  
Hose ..... PVC  
Tubing..... Polyethylene  
Tube Fittings ..... Polypropylene  
Injection Valve..... PVDF; Viton; Hastelloy

**Solution Components:**

Ball Valves ..... PVC  
Piping ..... Schedule 80 PVC  
Blending Chamber ..... Stainless Steel 304  
Apparatus Plates..... PVC / ABS  
Sight Tube ..... Acrylic

Revised: 01/09/2024