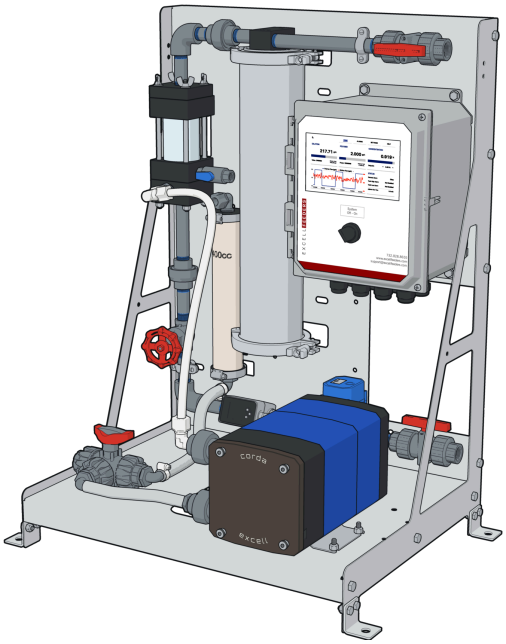
EXCELL FEEDERS

Data Sheet

6PSevo 400

Polymer feed system

A complete liquid polymer feeder on one stainless steel frame: a peristaltic metering pump, patented motorless activation and a Cortex 7 controller, for dilution water flows of 2 to 400 gph.



- Peristaltic metering pump: no valves to clog, self-priming against full line pressure, IP66.
- Proven, patented, motorless activation, with a self-cleaning sight tube.
- Solution concentration ratio control, local and remote operation, a batch program and a flush.
- Cortex 7 controller with a 7 in touchscreen: alarms, trends and totals, and plant network options.
- One-gallon stainless steel blending chamber.
- Thermoplastic piping for corrosion resistance.
- Stainless steel frame, floor or wall mounted. Extended 16 in legs are available.
- Two-year warranty.

2–400	0.001–7.925	8,000:1	60 psig	88 lb
gph dilution water	gph neat polymer	pump turndown	working pressure	weight

HOW IT WORKS

Our motorless polymer activation apparatus, proven over more than 25 years, gives the high energy needed to activate every type of liquid polymer. It injects the polymer into the dilution water stream, and the solution passes at once through a low-pressure, high-energy activation nozzle.

The activated solution then flows through a patented self-cleaning sight tube before it leaves the feeder. The flow drives the cleaning assembly continuously, and the sight tube lets the operator see that the feeder is working.

A peristaltic metering pump covers the whole range with one model: 0.001 to 7.925 gph of neat polymer, with the maximum set on the touchscreen. It has no valves to clog and primes itself even against maximum line pressure.

The Cortex 7 controller paces the polymer to the dilution water flow, or to a remote 4–20 mA signal, and keeps the solution at its set concentration. See the Cortex 7 Data Sheet for its inputs, outputs and network options.

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ENGINEERING SPECIFICATIONS

Dilution water	2.0 to 400 gph (7.57 to 1,514 L/h)
Neat polymer	0.001 to 7.925 gph (0.063 to 500 mL/min)
Working pressure	60 psig (4.1 bar) maximum. Water supply 30 to 60 psig, at least 30 psig above the injection point; 100 °F (38 °C) maximum
Connections	Dilution water inlet: true union PVC ball valve 1/2 in Polymer inlet: true union PVC ball valve 1/2 in Solution discharge: true union PVC ball valve 1/2 in
Power	120 VAC, 60 Hz, single phase; 8 ft cord with NEMA 5-15 plug, to a grounded GFCI-protected outlet
Controller	Cortex 7: 6 relays, 4 analog inputs, 2 analog outputs, 6 digital inputs (4 shared with transistor outputs), Ethernet
Flowmeter	ifm SM6621 magnetic-inductive, 0 to 393.3 gph
Size	25.66 W × 18.44 D × 32.00 H in (652 × 468 × 813 mm) with mounting brackets; frame 22.44 in (570 mm) wide
Weight	88 lb (40 kg); shipping 110 lb (50 kg)

MATERIALS OF CONSTRUCTION

DILUTION WATER

Ball valves	PVC
Piping	Schedule 80 PVC
Motor operated valve	316 SS; closes if power is lost
Flowmeter	316 SS; PEEK
Globe valve	316L SS
Tubing	Polyethylene
Tube fittings	Polypropylene

POLYMER

Ball valves	PVC
Calibration column	PVC
Hose	PVC
Pump tube	Versilon C-210A polyurethane
Tubing	Polyethylene
Tube fittings	Polypropylene
Injection valve	PVDF; Viton; Hastelloy

SOLUTION AND FRAME

Ball valves	PVC
Piping	Schedule 80 PVC
Blending chamber	304 SS
Apparatus plates	ABS
Sight tube	Acrylic
Frame	304 SS, #4 brushed
Enclosures	Controller: NEMA 4X. Pump: glass-filled PPE/PS

DIMENSIONS

Dimensions in inches [mm]

