



# Pump Selection & Installation Guide

## Selection

### Chemical Compatibility

- Liquid end must be chemically compatible.
- Check with chemical manufacturer.

### Pump Size

- Size pump at ~70% capacity.

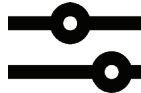
$$\frac{\text{Process GPM} \times \text{Required PPM} \times 1440}{\text{Solution PPM}} = \text{Pump GPD}$$

### Pressure Output

- Pump pressure rating must be greater than system pressure by at least 20%.

### Add-on Features

- Liquid End Options - Degas head, 5 function, ect.
- Control Options - Pace, Stop, or 4-20mA



## Installation

### Risks and P.P.E.

- Wear appropriate PPE (Personal Protective Equipment), when working with or near chemicals and pumps.
- Identify all risks and always adhere to regulatory requirements.

### Pump Location

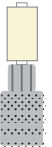
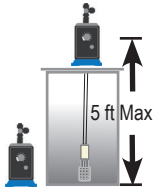
- Mount the pump securely on a tank, shelf, or to a wall, rotate pump head (if allowable) and point weep hole down.

### Injection

- Select an injection point to maximize chemical diffusion.
- Center of pipe (use mixers when necessary).
- Avoid injecting near sensitive probes.

### Suction Lift / Flooded Suction

- Suction Lift - 4 ft recommended lift, 5 ft max.
- Flooded suction - pump below tank.
- Foot valve should be installed vertically (not on side).





# Troubleshooting & Maintenance

## Troubleshooting Start-up

1. Wear safety glasses, face shield and protective clothing when working near or with chemicals.
2. Validate pump adheres to selection & installation guide.
3. Ensure all liquid connections are tight.
4. Inspect all tubing, replace if necessary.
5. Verify suction tubing is cut to length with no slack.
6. Chemical tank must be vented.
7. Vent line from pump in tank must not be submerged in solution.
8. Energize pump, listen for pump diaphragm actuating. If no sound, check electrical connections, inspect fuses/breakers and check pump temperature.
9. Open prime valve to vent during priming.
10. Prime pump; turn stroke knob and speed knob to 100%.
11. Once pump primes, close prime valve.

## Maintenance

Look for the QR code on the label!

Wetted pump components are wearable. Active maintenance is recommended, 6 mo - 1 yr depending on use and application. Rebuild your pump with compatible components. Look for the replacement kit on the label. For a full break down and additional instructions, scan the QR code!

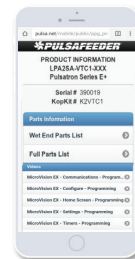


### KOPkit®

- Head
- Diaphragm
- Suction Valve
- Discharge Valve

### PEPkit

- Includes **KOPkit®**
- Suction tubing
- Discharge tubing
- Foot valve/strainer
- Injector



If you have any additional questions about pump selection, installation, troubleshooting or maintenance contact Pulsafeeder at (941) 575-3800.



Abbreviated reference document refer to manual for additional info.

Useful Videos:

