

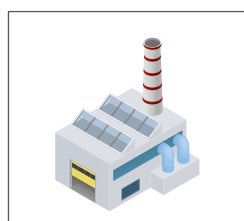


## Process Ready Pumps

What is Process Ready? All ARO® EXP Standard models now come with connection points that provide a communication portal from your ARO® EXP pump for process monitoring and control. Whether you have the need today or are planning to expand your capabilities in the future, ARO® has the right solution for you to improve your connection to your process.

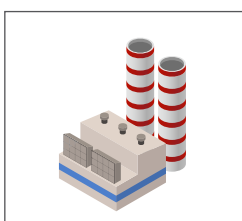


### Target Applications



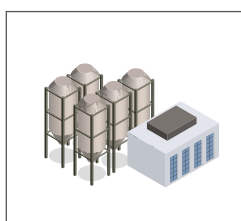
#### INDUSTRIAL

- ☐ Batching/Blending
- ☐ Mold and Die Release
- ☐ Flushing/Cleaning



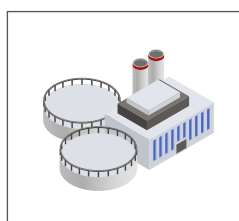
#### CHEMICAL PROCESSING

- ☐ Formulation
- ☐ Failure Detection
- ☐ Process Monitoring/Control
- ☐ Process Transfer Validation
- ☐ Repackaging



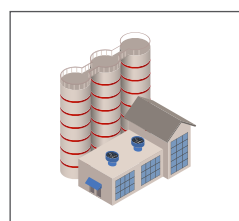
#### TANK FARM

- ☐ Monitoring
- ☐ Truck Loading and Unloading
- ☐ Process Validation Control
- ☐ Process Validation Control
- ☐ Diaphragm Failure Detection



#### WASTE WATER TREATMENT

- ☐ Dosing
- ☐ Chemical Injecting
- ☐ PH Control
- ☐ Filter Press Pump Control
- ☐ Sump



#### PLATING AND COATING

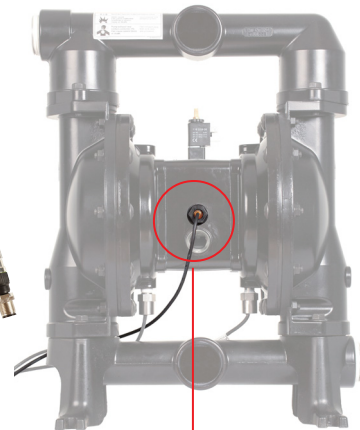
- ☐ Meter Chemical Additives
- ☐ Recirculation
- ☐ Diaphragm Failure Detection



## Uptime/PM Programs/Less Waste/Improved Productivity = Profitability

▼ **End of stroke output available** – With the simple addition of an available proximity switch kit you can now pick up an output signal on every pump stroke.

- ❑ Establish Preventive Maintenance program – Monitor total number of cycles and apply a program.
- ❑ Proof of operational performance – Monitor cycle rate feedback to validate transfer and flow (Remote Tank Farm, Process Validation, Pump Performance Validation)
- ❑ Batching – Monitor pump cycles to provide feedback for specific batch applications. (Tank filling, Formulations)
- ❑ Dosing – Monitor pump cycles to provide feedback for specific dosing applications. (Monitor and adjust flow rates to match process requirements)
- ❑ Bolt-on end of stroke kits to upgrade a standard EXP pump (Available in Standard Duty and Hazardous Duty)



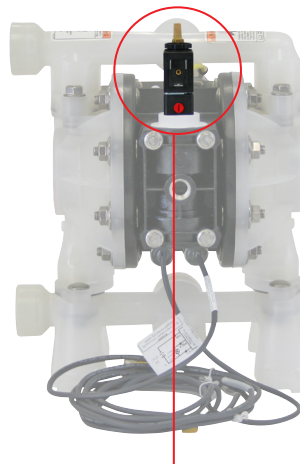
End of Stroke Switch

▼ **Leak Detection output ports** – Simple addition of Leak Detection sensors to our Standard EXP Pumps. Output can be used to notify when diaphragm failure has occurred.

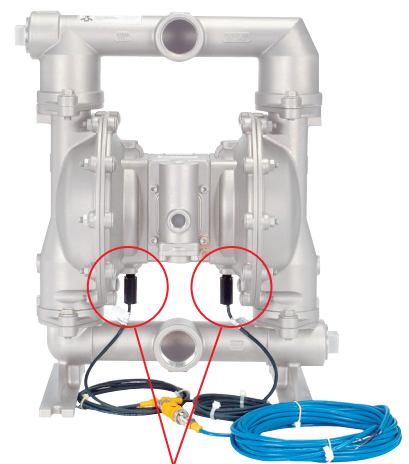
- ❑ Enhance employee safety
- ❑ Prevent costly material spills
- ❑ Minimize repair time
- ❑ Kits available in Standard Duty or Hazardous Duty

▼ **Electric Solenoid Pump Control Valve** – Achieve complete control of cycle rates and pump flow with solenoid air valve replacement.

- ❑ Batching – Provide on/off input to cycle pump at a pre-determined rate
- ❑ Dosing – Provide on/off input to cycle pump at a pre-determined rate
- ❑ Kits come pre-assembled from the factory for quick and easy conversion
- ❑ Kits are available in all sizes and materials of construction (Available in Standard Duty and Hazardous Duty)



Electric Solenoid Control Valve



Leak Detection Sensors

▼ **ARO® Controller** – If you have an application to control or monitor your pump outside of your present process or in a remote environment we have the solution for you. All inputs from above devices can be used in conjunction with the ARO® controller.

- ❑ Batching and Dosing – PH control/filling – Control Inputs can be accepted from other devices to manage outputs
- ❑ Can control 1 or 2 pumps with up to 5 batches per pump.
- ❑ Dispensing repeatability within +/- 1%
- ❑ Flow meter integration
- ❑ Diaphragm Failure Detection – provide outputs and alarms.
- ❑ Can be utilized in Hazardous Duty locations with proper barriers and connections.



ARO® Controller