

UPGRADED PUMP SOLUTION WITH A SEAMLESS TRANSITION

Saint-Gobain Life Sciences Electronics is replacing the Furon[®] Chempure Pump with an enhanced and upgraded alternative, the Furon A2 Pump line, which has evolved from the AstiPure[™] and AstiPure II Pumps. While a transition within a complex system can be challenging, this upgrade can improve performance and ensure overall efficiency.

The Impact of Customer Feedback

Saint-Gobain is always looking to innovate and upgrade our products to improve functionality and user experience. The Furon A2 Pump has been designed with our customers' input and needs in mind. The improved pump answers the need for preventative and curative pump maintenance, depending on the criticality of the application.

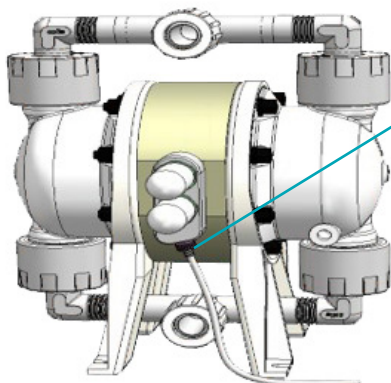
Installation and Modifications for Pump Integration

Converting to an A2 Pump provides our customers with an easy installation and set up process. We enhanced the self-priming function in the upgraded model, refining the ability to start pumping without needing to be manually primed.

Other enhancements featured on the A2 Pump:

- The optic fiber installed on the shuttle valve is used to count strokes and provides information back to the core distribution system.
- Minor plumbing adjustments made for the inlet/outlet flow connections
- The control card does not need modifications providing an easy exchange
- No O-Ring sealing technology
- Metal free construction
- Easy maintenance

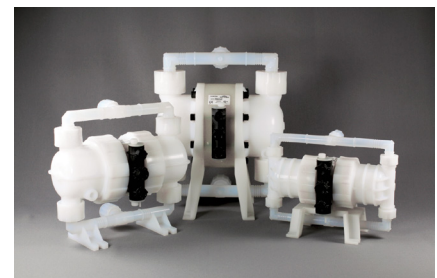
Leak Detecting System



- Non-invasive optic fiber provides a metal free leak detecting system
- Quick assembly design and adaptable on all A2 pump designs

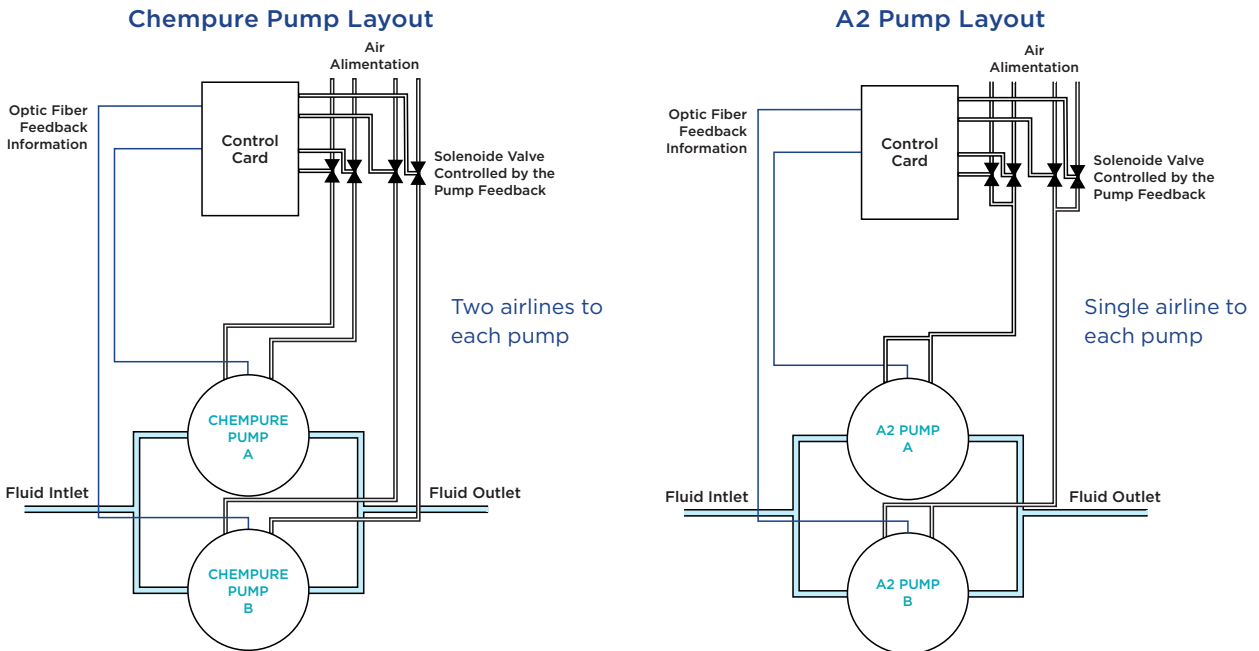


Furon Chempure Pump



Furon A2 Pump Line

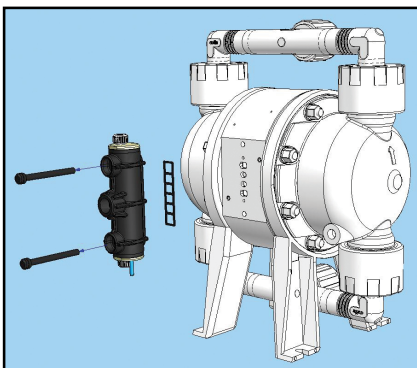
Typical Standard Hook Up Logic Layout Simplified



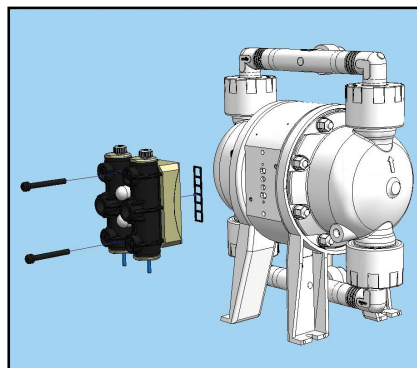
A2 Pump Functional Enhancements

The A2 Pump features an improved, smoother air circulation system, enabling a faster fill and exhaust of the bellow and reduced air in the bellow chamber. The air consumption in the Chempure pump compared to the A2 Pump design was decreased from approximately 30 SCFM (50 m³/h) down to 12 SCFM (20 m³/h). The air consumption rate depends on what size pump is utilized.

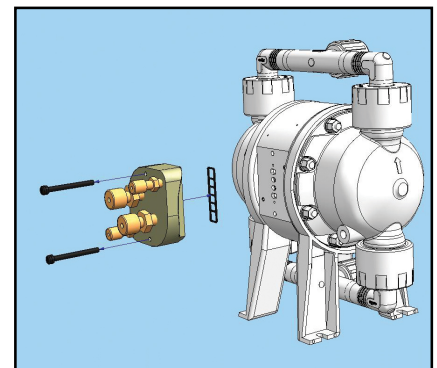
The pump operates pneumatically, powered by two reciprocating PTFE bellows that oscillate at a significantly lower frequency than a comparable diaphragm pump. Its standout feature is adaptability, thanks to an innovative shuttle valve fixation technology that supports three distinct driving systems—single, external, and twin—allowing customization to meet specific customer needs. For instance, the twin driving system enhances safety and durability compared to the Chempure model. Additionally, the upgraded A2 Pump eliminates the need for a complete redesign of the air system (see the pump layouts above).



Single shuttle valve driving system



Twin shuttle valve driving system
(Anti-stalling system)



External driving
(Allow a direct driving through a PLC system)

Long Lasting Durability

While this change may present a temporary inconvenience to some, it will ultimately enhance any fluid handling system through the advanced technologies incorporated in the A2 Pump. With more than 130 million cycles of testing, the pump has demonstrated its durability offers and cost effectiveness. Please reach out to us for support with your transition requirements.



ASK AN
ENGINEER

[CLICK HERE TO SEE MORE ON FURON A2 PUMPS](#)

