SOLUTIONS SHOP

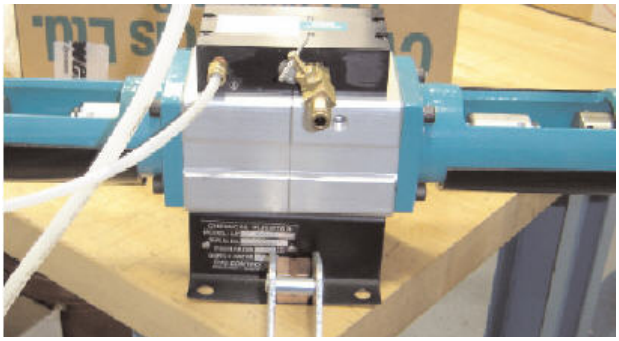
Bimba Develops Low Emissions Self Reciprocating Pump that is Corrosion Resistant

Challenge:

A customer needed a chemical injection pump that was resistant to corrosive media. The pump would run on methane gas instead of electronics, because the gas was readily available from nearby pipelines. While this was a great alternative energy source, the customer struggled to find an off-the-shelf cylinder that could stand up to unprocessed methane gas.

Solution:

By integrating reciprocating valves with an actuator, Bimba was able to develop an auto-reciprocating cylinder that could achieve the constant cycling function of a chemical injection pump without the use of electronics. The customer was then able to mount plungers on one or both sides of the Bimba cylinder. The cylinder forced the plungers through packing, creating a positive displacement, reciprocating the pump and creating a low emissions injector pump resistant to the corrosive nature of methane gas.



Benefits:

- **Corrosion resistant.**
- **Low emissions.**
- **Constant cycling function of a chemical injection pump without electronics.**

Other Applications:

- **Water Treatment**
- **Methanol injection in gas pipelines**
- **Injection of soap into low-pressure gas wells with high water content**
- **Introduction of chemicals such as solvents and corrosion inhibitors**

Contact Bimba at 1-800-44-BIMBA or cs@bimba.com