

Case Study: Garlock ONE-UP® Pump Diaphragm



INDUSTRY

Automotive

CUSTOMER

Automotive Vehicle Manufacturer

BACKGROUND

AODD (Air Operated - Double Diaphragm) pumps are becoming more prevalent throughout the paint and coatings industry. They are considered "shear sensitive" pumps which means they can move the media without over agitating or separating it. AODD pumps can also move highly viscous and abrasive media.

CHALLENGES FACED

Paint and coatings facilities can encounter a variety of pumping obstacles due to the aggressive nature of the service medias being used. Highly viscous medias can put strenuous forces on the diaphragms due to the suction lift created within the system. The resins, solvents, and additives can be chemically aggressive enough to where compatibility is a concern.

OPERATING CONDITIONS

Size: 1" - 2"

Temp: Ambient

Application: Pump Diaphragm - Pneumatic

Media: Paint, Cleaning Agents, Wastewater

Pressure: Variable

SOLUTION AND BENEFITS

The Garlock ONE-UP® was placed in over 200 pumps throughout the facility and immediately had an impact on performance and down time. Depending on where in the facility the pumps were being utilized the stock two-piece PTFE diaphragms were lasting anywhere from one to three months. The average life of the Garlock ONE-UP® in the same pumps is about 18 months. The superior life cycle of the Garlock ONE-UP® is due to the high-quality PTFE and robust one-piece construction. No silicone is intentionally added or used during manufacturing to produce the ONE-UP® so there is no risk of silicone contamination to the paint process.

For more information, please visit:

<http://www.garlock.com>

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