Most businesses rely on Air Operated Double Diaphragm (AODD) pumps as they tend to be general workhorse devices used in transfer applications. They are used in a wide range of industries to handle different materials such as chemicals, crude oil, mining, food, beverage, paints and many more.

A pump’s lifetime performance is very critical since customers expect higher productivity while reducing energy consumption and maintenance. Our custom Rulon® diaphragm product provides a high cycle life due to its PTFE material, which lasts longer than diaphragms made from other materials. PTFE material is ideal in all chemical-handling applications across many industries. We offer complete in-house tooling design and fabrication, advanced machining techniques, and compression molding capabilities to design a precise fit solution.

**Solution Team:** Willich, Germany Minhang, China

**Marathon® Product:** Used in diaphragm valves.
## SAINT-GOBAIN SEALS APPLICATION CASE STUDY

### Industrial: Case of the Air-Operated Diaphragm Pump

<table>
<thead>
<tr>
<th>PRODUCT SOLUTION</th>
<th>Diaphragms</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA</td>
<td>AODD Pump, Diaphragm Valve</td>
</tr>
<tr>
<td>MATERIAL</td>
<td>PTFE</td>
</tr>
<tr>
<td>CRITICAL PART</td>
<td>Molded Diaphragm</td>
</tr>
</tbody>
</table>

### TECHNICAL DETAILS
- **Media:** chemicals, crude oil, mining, food, beverage, paints and many more.
- **Size:** Custom Made
- **Temperature:** Varies based on customer and application requirements; typical temperatures range from -400°F to 536°F (-240°C to 280°C)

### BENEFITS AND ADDED VALUE
- High flexibility and life
- Low maintenance
- Clean room production for high purity applications