

Case Study: GYLON® 3522 - Valve Company



INDUSTRY

Food and Beverage

CUSTOMER

Large Global Valve Company

BACKGROUND

SIP (steam in place) at temperatures of 300°F (148°C) and 145 psi, in contact with cleaning agents, steam and the primary media which is dairy related products.

CHALLENGES FACED

The previous PTFE valve diaphragms were blistering from SIP cleaning between product runs and maintenance. This was causing premature failure of the diaphragms and bacteria build-up in between layers of the PTFE which was leading to costly downtime and potential product recalls.

OPERATING CONDITIONS

Temperature- 300° F (148°C)

Media- cleaning agents and dairy products

Pressure- 145 psi.

SOLUTION AND BENEFITS

Garlock made a diaphragm from GYLON® 3522 which did not blister under the operating conditions; this led to less downtime and the parts lasted over 300k cycles without being changed. The unique structure of GYLON® 3522 reduces the amount of voids in the material and extends the flex life. GYLON® 3522 is 3-A certified.

For more information, please visit:
<http://www.garlock.com>

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