

# 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>

## GARLOCK

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