

GYLON EPIX® Style 3510

Case Study: Process Control Valves



Industry

Process control valves for: Chemical processing, Oil & Gas, Power Generation, Primary Metal, Food & Pharma

Customer

The customer is one of the leading European companies in the field of automation, pneumatic and electropneumatic instrumentation for process control. Manufacturing is focused in process control valves.

Background

The customer places high value on the quality of his process control valves. He is convinced, that quality is the result of selected suppliers and goods inspection, both at sampling of raw materials and elements, and during the manufacturing phases. His process control valves have been designed to provide accurate control in any process condition. They are suitable for a wide range of control applications, where fluids such as water, superheated water, steam, air, gas require accurate control.

Challenges faced

The customer was struggling with the seal between bonnet and body due to the high cold flow of virgin PTFE when the valve is put under pressure.

During his research the customer determined the quality seals of Garlock and learned more about their special advantages. Finally, he contacted Garlock to discuss his problem.

He was looking for a BAM certified gasket which could grant a perfect seal and dimension stability after the compression between valve body and valve bonnet facing a pressure of 100 bar.

Operating Conditions

1. Media (process): Oxygen
2. Media (sterilization): -196 to 260 °C
3. Size (pipe/hose): OD from 55 mm to 260 mm
4. Pressure: up to 100 bar (Valve Class ANSI 600)

Solution and Benefits

Due to the excellent sealing properties of GYLON EPIX® Style 3510 the customer improved the valve sealability in cryogenic applications. The complete package of certification - including BAM and FDA - ensures a safe application in Food & Pharma and applications with Oxygen.

The honeycomb design eases the correct installation ensuring a proper gasket compression.

The customer decided to specify this solution for cryogenic valves replacing virgin PTFE.

For more information, please visit:

www.garlock.com

GARLOCK GMBH

an Enpro Company

Falkenweg 1, 41468 Neuss, Germany

+49 2131 349 0

garlockgmbh@garlock.com

www.garlock.com

Garlock Sealing Technologies

Garlock USA

Garlock Australia

Garlock Canada

Garlock China

Garlock Germany

Garlock India

Garlock de México

Garlock New Zealand

Garlock Singapore