



CASE STUDY

Gasket ensures a long-lasting seal

● INDUSTRY CHALLENGES

In manufacturing fertilizer, ammonium nitrate is added to the process, and traditional, spiral wound and Gylon gasket technology often deteriorate in these conditions, resulting in leaks. This is problematic because when ammonium nitrate leaks, it crystallizes and expands like ice, resulting in costly repair and safety hazards.

● BACKGROUND

The customer is a global manufacturer of agricultural fertilizer products with several large facilities all over the world. These fertilizer plants experienced constant leaks on their ammonium nitrate lines causing expensive shutdowns and HSE implications.

PIPEOTECH

 +47 371 63 000

 hello@pipeotech.com

 www.pipeotech.com

Material

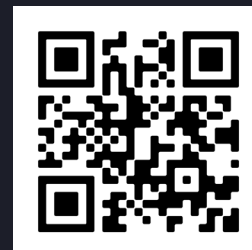
316L

Industry

Fertilizer Production

Customer

Global Manufacturer



● BENEFITS

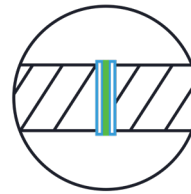
DeltaV-Seal™ was installed and monitored with zero leakage reported since the initial bolt-up. Installation of DeltaV-Seal™ can ensure a gas-tight and maintenance-free sealing solution that creates a safer, more profitable and environmentally sustainable facility.



BEFORE INSTALLATION OF DELTAV-SEAL™



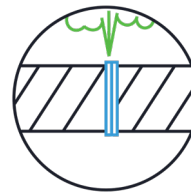
AFTER INSTALLATION OF DELTAV-SEAL™



INSTALL AND FORGET



ENDURING QUALITY



PREVENT FUGITIVE EMISSIONS



OPERATIONAL CONDITIONS

PRESSURE: 6 Bar

ATMOSPHERIC CONDITIONS: Ambien

TEMPERATURE: 160°C

MEDIA (PRODUCT): Ammonium Nitrate

SIZE: DN50, DN150, and DN200

MEDIA (CLEANING): Steam

● SOLUTIONS

Working with the customer for a long-term solution, Pipeotech proposed the 316L DeltaV-Seal™. The material match ensures corrosion resistance and galvanic compatibility, and the extensive product testing and certification creates confidence that a long lasting and gas-tight seal can be achieved.