

# Liners for biogas

## Maximum safety and trouble-free operation with InterApp special liners for biogas

Based on NBR and FPM, InterApp offers four corrosion-resistant liners for biogas applications. H<sub>2</sub>S in biogas dictates the liner material selection because it condenses with water and forms sulfuric acid. The higher the H<sub>2</sub>S content the higher the sulfuric acid concentration.

### Different liners for different H<sub>2</sub>S contents

#### Nitrile N liner

The standard nitrile (NBR) rubber liner has good resistance to oils, greases, fuel, gas oil, CO<sub>2</sub>, CO, and hydrogen. It is suitable for biogas with less than 1% H<sub>2</sub>S content under 40°C.

#### Nitrile NG liner

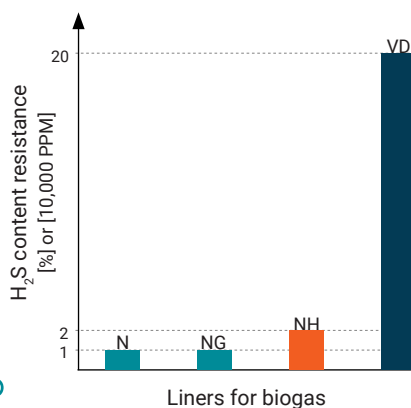
This liner is similar to nitrile N liner and has the same functionality. In addition, nitrile NG liners have DVGW gas approval.

#### Nitrile NH liner

It is a modified nitrile NBR liner for biogases with higher H<sub>2</sub>S content. Made of hydrogenated nitrile, it has two times higher H<sub>2</sub>S resistance in comparison to the standard NBR up to 40°C.

#### FPM VD liner

For higher H<sub>2</sub>S content, this FPM based liner is the right choice. It has a higher fluorine content than standard FPM, which increases its chemical resistance. It is suitable for biogas with up to 20% H<sub>2</sub>S content under 40°C. Also, it can tolerate any concentrations of sulfuric acid up to 80°C.



Desponia® and Desponia® plus range –  
liners for biogas

Desponia® and Desponia® plus, from DN 50 up to DN 250 and working pressure up to 5 bar, have passed the stringent requirements of the EN 161 and have obtained the approval by the DVGW, according to EN 161 Class A, valve group 2, safety Class B. Moreover, they also meet one of the most relevant fugitive emission standards, TA-Luft/VDI 2440 and can be supplied with ATEX execution.

Robust liner design with high-quality elastomer blends ensure trouble-free operation.

#### Product range

**Desponia® and Desponia® plus butterfly valves**  
**DN 25 – DN 1200**  
**Working pressure up to 16 bar**

#### Typical configurations

**Used in combination with ductile iron body,**  
**stainless steel shaft and stainless steel 1.4408**  
**disc**

Headquartered in Switzerland and part of the AVK Group, InterApp develops, manufactures and markets valves and related accessories. As a customer focused technology company, we supply comprehensive flow-control solutions to the most demanding industries around the world.