

# SUCCESS STORY

## BURCKHARDT POPPET VALVE™ IN CHALLENGING GAS SERVICE

Case No. 120

### APPLICATION DESCRIPTION

#### Plate valve replaced by Burckhardt Poppet Valve™

<b>Type</b>	Other brand, 1 <sup>st</sup> stage process gas compressor	<b>Gas</b>	Ethylene Vinyl acetate
<b>Power</b>	75 kW / 100 BHP	<b>Suction pressure</b> <b>Discharge pressure</b>	2.03 bara / 30 psia 10.79 bara / 156 psia
<b>Speed</b>	590 rpm	<b>Lubrication</b>	Lube

### CUSTOMER ISSUES / NEEDS

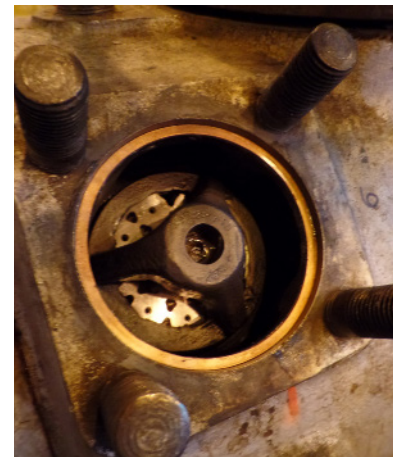
- Current plate valve only lasted 6 weeks due to sticky ethylene application
- Gas is highly contaminated
- To increase valve lifetime
- To reduce service maintenance time of valve service

### BURCKHARDT COMPRESSION SOLUTION

- Custom-engineered Burckhardt Poppet Valve™ with optimized performance
- Less clogging thanks to high lift area and aerodynamic flow path
- Due to construction of the Burckhardt Poppet Valve™, the valve is repaired on site by the customer himself achieving the new valve standard

### CUSTOMER BENEFITS

- Valve lifetime increased by 200%
- Reduced service and maintenance costs
- Reconditioning on site of the valve, therefore fast maintenance service
- Very simple maintenance without any special tools
- Highest efficiency due to the improved design of the Burckhardt Poppet Valve™



**COMPRESSOR KNOW-  
HOW WITH IN-HOUSE  
COMPETENCY COVERING  
COMPRESSOR VALVE  
TECHNOLOGY**



HIGHEST  
AVAILABILITY



SUPERIOR  
PERFORMANCE



LOWEST LIFE  
CYCLE COSTS

**COMPRESSOR COMPONENTS**

BEST PERFORMANCE  
AND LONGEST LIFETIME

Compressor valves

Redura® rings & packings

Capacity control systems

Capital parts

Labyrinth piston compressor  
components

Hyper/secondary compressor  
components

**SERVICES**

THE FULL RANGE

Burckhardt Valve Service

Spare parts logistics

Field service

Technical support

Revamps & upgrades

Component repair

Condition monitoring &  
diagnostics

Training

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