

SUCCESS STORY

CENTRAL VALVES FOR OTHER BRAND HYPER COMPRESSOR

CASE NO.103

APPLICATION DESCRIPTION

New central valves for other brand hyper/secondary compressor

Type	Other brand hyper compressor	Gas	Ethylene
Power	6'200 kW / 8'310 hp	Suction pressure Discharge pressure	260 / 1'400 barg 1'400 / 2'700 barg
Speed	214 rpm	Lubrication	Forced lubrication to cylinder



WHY BURCKHARDT COMPRESSION

- Improve lifetime and increase reliability of 1st stage radial valve and 2nd stage axial valve. Reduce downtime of compressor
- Simplify installation of central valves
- Material analysis, propose possible improvements

BURCKHARDT COMPRESSION SOLUTION

- FEA analysis of the central valves
- Customized engineering of Burckhardt Compression central valve design
- Know-how and experience provided from the market leader in LDPE compressor manufacturing. High performance material selected to provide the required improvement. Utilization of particular manufacturing processes like Autofretage, shot peening and roller burnishing in order to achieve superior durability and resistance.
- Manufacturing, quality assurance and installation of the new central valves



CUSTOMER BENEFITS

- Perfect fit onto existing Non-Burckhardt Compression compressor
- Increased reliability and lower life cycle costs with the new solution
- Successful operation after installation in 2010
- Delivery to full customer satisfaction



**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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