

STRAIGHTFLO™ VALVES EXTEND MTBF, INCREASE THROUGHPUT, REDUCE POWER CONSUMPTION

COMPRESSOR DESCRIPTION

Manufacturer/Model: Cooper Bessemer GMVH-10

Speed: 330 rpm

Suction Pressure: 541 psi

Discharge Pressure: 761 psi

Problem: OEM valves failed every 6-8 months due to their inability to withstand dirty gas.

Solution: After an evaluation of available valve technologies, the operator chose Zahroof StraightFlo™ compressor valves. StraightFlo™ valves were installed in August 2018.

Results: With StraightFlo™ valves, Mean Time Between Failure (MTBF) increased from an average of 6-8 months to more than 5 years.

Performance improvements included a 4.4% increase in gas flow and 2% reduction in power consumption after conversion to StraightFlo™ valves.

The operator was able to eliminate two emission events each year and reduce its carbon footprint by decreasing power consumption.



6-8 MONTHS → 5+ YEARS



4.4% INCREASED
GAS FLOW



2% REDUCED POWER
CONSUMPTION



10 FEWER EMISSION
EVENTS

StraightFlo™ Advantages

- Extends run times
- Increases throughput
- Reduces power consumption
- Eliminates multiple emission events (blowdown, purge, flare)
- Reduces engine emissions or electricity consumption by increasing compressor efficiency
- Reduces call-outs for compressor service (miles driven), eliminates carbon footprint in repair and replacement of valves.
- Reduces service costs; all but eliminates unscheduled compressor downtime

