

# STRAIGHTFLO™ VALVES EXTEND MTBF FROM DAYS TO YEARS, ELIMINATE EMISSION EVENTS

## COMPRESSOR DESCRIPTION

Manufacturer/Model: Ariel JGA-2  
Power: 140 hp  
Speed: 1800 rpm  
Stages: 4  
Suction Pressure: 23 psi  
Discharge Pressure: 290 psi

**Problem:** A compressor in oil & gas production experienced shutdowns every 21 -28 days due to valve failures. The 4th stage discharge valve required replacement at every shutdown. Polymerization in the gas stream was a significant factor.

**Solution:** After an evaluation of available valve technologies, the operator chose Zahroof StraightFlo™ compressor valves. StraightFlo™ valves were installed in July 2014.

**Results:** With StraightFlo™ valves, Mean Time Between Failure (MTBF) increased from an average of 25 days to more than 7.5 years.

Extended run times with StraightFlo™ compressor valves eliminated 12 emission events per year. The operator was also able to reduce power consumption after conversion to StraightFlo™ valves.



**90 FEWER EMISSION EVENTS**



**25 DAYS → 7.5 YEARS**

## StraightFlo™ Advantages

- Eliminates multiple emission events (blowdown, purge, flare) during operation of compressor
- 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.
- Minimizes exposure of mechanics to toxic gases and noise



OEM valves failed due to heavy polymerization.

Debris-tolerant design of StraightFlo™ valves.