

## Redesigned Valve Cage & Cover Eliminate Multiple Gas Leaks



### The Challenge

During the last few years the customers' compressors have suffered many leaks through the valves' cages/covers. When the plant operators approached the compressors the gas detector alarms would activate. The compressors were shut down to work on the units safely.



The elements were leaking due to the walls of the valve ports. The components showed a lot of corrosion and superficial pitting. A new valve cover / cage design was required. The addition of new O-rings and gaskets that would improve the seal against the valve port walls and surface of the actuator groove.

### The Solution

CPI, part of the Howden Group, designed and manufactured a new valve cage and valve cover that improved both gas sealing and maintenance operations and allowed the installation of new pneumatic actuators. The new valve cover includes machined grooves to house O-Rings and a back-up gasket, improving the gas sealing capability of the complete assembly once installed.

