CASE STUDY

Product	Actuators
Segment	Chemical Industry
Case nº	2017.002



Situation

A reciprocating compressor at a propene processing production plant was presenting constant reverse type actuator problems. The sealing features of the original actuator were not efficient, and because of that the valves operated partially open. This frequent failure compromised the compressor performance. Also, the reconditioning of the original actuator was time consuming due to its complex design. Finally, the plant was subject to sea air, which caused corrosion in the actuator because its parts were mostly made of carbon steel.

Compressor

Manufacturer	Ingersoll Rand
Model	4HHE-FB-2NL2
Gas	Propene (C3H6)
End Pressure	256 psi



Solution

Selco selected its exclusive actuator **Sc-Force** to solve the issue. This modern design actuator presents a robust and efficient sealing system. This enables precise valve activation, allowing the compressor to reach its full operational capacity.

The simplified construction of the actuator enables ease of reconditioning, and the selected quality materials provide for prevention of corrosion build up, as well as promote increased operational life.

Results

The original project presented failures within a single production year, while **Sc-Force** actuator has been operating free of problems for over a decade. The simplified construction of the actuator will allow for a swift reconditioning when needed.

During this decade the client experienced no related production losses due to non programmed stops of the compressor, and thus reduced substantially its maintenance costs linked to those events.

Selco Compressors

| Original Project



Selco Project



Sc-ForceAssembly Features



For other case studies, and to learn more about Selco, visit: **www.selcobrasil.com.br**

Selco Compressors 2