

POWER GENERATION

FACILITY:	APPLICATION PROBLEM:	SOLUTION:	SUCCESS SINCE:
Southeastern U.S. Power Plant	Failing double door check valves on instrument air reciprocating compressors	PDC® Check Valves	2015

Challenge:

For more than a decade, a U.S. power plant located in the Southeastern United States struggled with frequent failures of their Double Door Check Valves. The valves, which were installed on the discharge ends of their instrument air reciprocating compressors, began failing so often that management at the plant considered replacing the compressors with expensive centrifugal units in an attempt to resolve the problem.

Solution:

To avoid these costly equipment replacements, DFT® instead suggested replacing the failing Double Door Check Valves with PDC® Check Valves. Specifically designed for reciprocating air compressor systems, the PDC® Check Valve contains a pulse dampening chamber to maintain the disc in an open position during the momentary flow reductions between compressor cycles.

With DFT® INC' guidance, the plant installed four PDC Check Valves in 2015— and the failure issues were resolved. The newfound efficiency in the compressor system enabled the plant to cancel their costly plans for system replacement.

When the DFT® team followed up to see how the valves were performing, the plant manager said:

"You made me a hero."



PDC® Flanged Check Valves:

- Specially designed for discharge-side usage on reciprocating compressors
- Pulse-dampening chamber keeps disc in open position during cyclical flow reductions
- Can be installed vertically or horizontally
- Silent, spring-assisted closing
- Easy maintenance
- RF Flanged or RTJ ends available
- Usable in air and gas mediums
- Line size range of 2" to 26"
- Pressure range of ANSI 150 to 1500
- Tight shut-off
- No chatter
- Self-sizing

Contact DFT for a Solution to your problem

