



## CASE STUDY

CUSTOMER

**INGERSOLL**

LOCATION

**CALGARY, AB CANADA / APR - OCT 2013**

EQUIPMENT

**RAND HIGH PRESSURE AIR COMPRESSOR**

APPLICATION

**LUBE OIL**

ROI



ELIMINATED  
VALVE FAILURES  
ANNUAL  
COST  
SAVINGS

**\$25,200**

### CHALLENGE

Moisture in the air system was causing corrosion of the carbon-steel piping and producing high levels of contamination in the system.

The contamination was prematurely damaging the solenoid valve rubber seals. The damage forced the valves to remain open resulting in the need to replace them monthly. The valve failures were inhibiting production. In an effort to reduce unscheduled downtime and the monthly expense of replacing the valves, the maintenance team removed them all together.

### SOLUTION

Install an OEI magnetic filter y-strainer before the solenoid valves to remove the sub-micron wear particles that were damaging the seals.

### RESULTS

The photo shows contamination removed from the system after two weeks. The air flow is now clean, and the valves were re-installed. A similar amount of contamination is removed every three weeks during cleaning. If left in the system, these contaminants would continue to cause premature valve failure.

The annual savings realized from eliminating the replacement of 3 valves each month (\$700/valve) can be equated to \$25,000. This does not include the cost savings realized from preventing unscheduled downtime.



PRODUCT  
RECOMMENDATION

**MAGNETIC FILTER  
Y-STRAINER**



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