



Intelligence into Action

Powered by **TEN ONE**

## Answer the right questions

How well does this valve execute each command from the control system?

Are the valve components reliable and performing well?

What are the best improvement paths?

Does the control room have enough information to precisely tune the loop?

## Results to Date

**50%**

More performance, timing, safety and future reliability concerns identified

**50%**

More Control Valve Performance Improvements completed

**88%+**

Valves Restored on Site

**100%**

Precise Calibration and Systemic Alignment



Analyze each valves ability to fully execute application specific commands



Identify previously hidden shortcomings



Follow the most effective performance improvement instructions



Actionable insights and reports



Precise control system alignment instructions



Supplier neutral

Adoption is quick and flexible

In-person training

Patent Pending



## Why focus on Control Loop Performance?

“A recent examination of 5000 control loops at twelve different facilities found that 50% were failing to reduce process variability.”

PROCESS INDUSTRY SYMPOSIUM AT TEXAS A&M

“An audit of over 7000 control loops in refineries and chemical facilities found that more than 50% needed improvements to achieve optimal process improvement.”

NEIL REINHARDT FOR FISHER VALVES / EMERSON USA

“Several studies have shown that processing plants still deal with many small problems:

20% of PID control loops are not designed well.

30% of PID control loops have control valve problems

40% of PID control loops produce expensive process oscillations”

PI CONTROL SOLUTIONS LLC

## Why use Optimize?

Supplier Neutral

Generates on the spot diagnostics, troubleshooting procedures, and improvement paths

Most control valve conditions can be corrected on the spot and in situ

Ensure precise alignment and enduring response to control system commands

Provides trends, proposed next step improvements and complete record keeping per valve

Reduces unnecessary repairs and adjustments

Reduce costs while increasing the impact of each turnaround

Trains your workforce

**Optimize provides a significant return on investment**

Patent Pending