

Swagelok Pittsburgh | Tri-State Area

Your Local Swagelok Fluid-System Solutions Provider

Your Challenge

The Seal Support System, featuring multiple welded and threaded connections, for a major Power Plant's boiler feed water pumps leaked excessively due to extreme pump vibration. Result: Frequent operational failures and costly downtime. Even though the site scheduled routine pump overhauls during outages, there never seemed to be sufficient time or available skilled labor to perform the necessary major welding repairs. However, such welding fixes, if done, would still not alleviate the core/critical vibration problem.

Your Swagelok Solution

After extensive collaboration, including numerous site visits, with our customer, **Swagelok Pittsburgh | Tri-State Area** applied its collective Fabrication/System Design expertise to:

1. Reverse engineer new cooling and flushing in/out lines.
2. Deliver a pre-fabricated **Installation Work Package** that incorporated premier Swagelok tube fittings, bent tubing runs, pre-assembled sub-systems, and metal-core hoses.

Outcome:

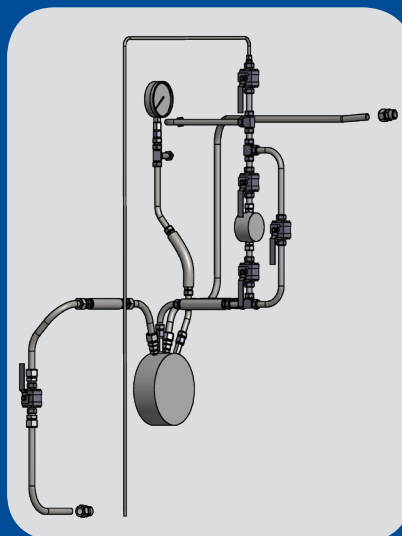
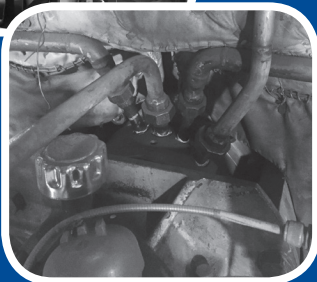
Pump vibration was virtually eliminated, thus solving the seal support leakage issue.

In addition, some of the tubing runs were left long to accommodate safer, easier, faster, and economical field installation by the site's maintenance technicians. We also provided on-site technical support to ensure optimum fit during the actual implementation.



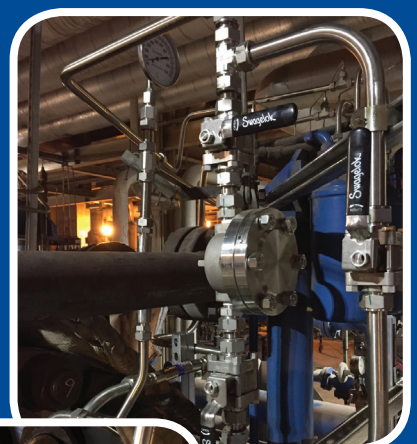
BEFORE

Welded and threaded seal support system connections leaked due to extreme pump vibration.



SWAGELOK

Pre-Fabricated Work Installation Package.



AFTER

Swagelok small-bore package of tube fittings, bent tubing, pre-assembled sub-systems, and hoses effectively countered pump vibration to solve the leakage issue.



Your Bottom Line

1

The Swagelok Pre-Fabricated Installation Work Package saved substantial on-site labor time, money, and risk.

2

Subsequent pump conversions were accomplished quickly and efficiently employing the same Swagelok small-bore tubing solution.

3

Customer now has a superior, leak-tight seal support system that can withstand the damaging effects of significant pump vibration.

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