

# Mechanical Seal Plan Solution

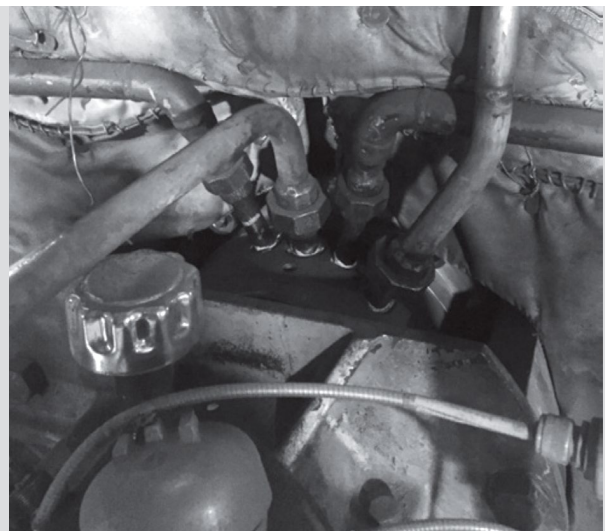
Let see how Swagelok can help you solve leakage on seal pump

## Customer Challenge

The customer's 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.



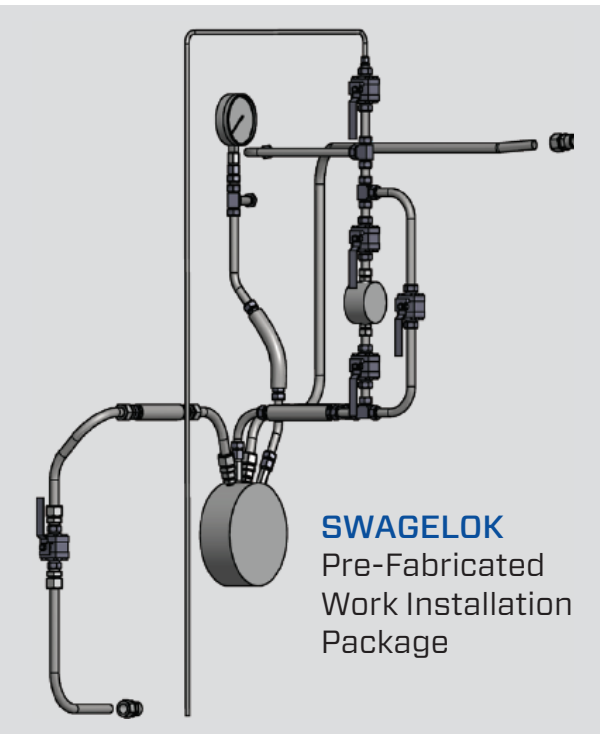
### Before:

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



**After:**

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



**Swagelok solutions:**

After extensive collaboration, including numerous site visits, with our customer, Swagelok 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 onsite supervision to ensure optimum fit during the actual implementation

**For more information**

**Contact to**

M.J. Bangkok Valve & Fitting Co., Ltd | Swagelok Thailand at

**Phone:** 02-062-1599

**Email:** [swagelokthailand@mjbangkok.com](mailto:swagelokthailand@mjbangkok.com)

**Official Line:** @swagelokthailand

Thanks **Swagelok Pittsburgh** for sharing an expertise in fluid system. Swagelok, we are fluid system solutions provider