

# Dean Pump®

## OPTIMIZE EMISSION CONTROL TO MINIMIZE THE ENVIRONMENTAL IMPACT OF YOUR PROCESSES

Proven existing **RA-Series** pump air-cooled pump technology is now available with dual (tandem) mechanical seal protection for high temperature thermal liquids.

CECO Environmental's Dean Pump RTA is a tandem seal option that increases performance and reliability by offering a secondary line of defense to contain any potential seal leakage. Specifically, this option features two completely independent seals that do not depend on one another for sealing. Tandem seals provide a cost-effective alternative to double seals and sealless pumps in the drive to achieve near zero emission rates and increased safety in the high temperature applications & markets that we serve.

### EPA COMPLIANCE

There is a challenge to keep up with the ever-changing laws and regulations of the U.S. Environmental Protection Agency (EPA).

Leak Detection and Repair (LDAR) regulations were put into place by the EPA because of the amount of volatile organic compounds (VOCs) and volatile hazardous air pollutants (VHAPs) being emitted by mechanical seals in pumps. There is an increased cost and time factor to deal with the four processes of the LDAR Regulations, administered by the EPA. **Identify** components to be included in the program; **Conduct** routine monitoring of identified components; **Repair** any leaking components; and **Report** monitoring results.

Avoid the increased EPA scrutiny while complying with various Code of Federal Regulations (CFRs) with the RTA dual (tandem) seal. Based on meeting certain criteria, pumps equipped with a dual (tandem) seal are exempted from meeting specific monitoring and reporting requirements of LDAR.

Less emissions also equals less of a chance of being targeted for

enforcement actions and costly penalties for rule violations by EPA offices and other related agencies. As an example, the current Clean Air Act statutory penalty per violation per day is approximately \$100,000 USD.

### THE ENVIRONMENT

The EPA estimates that mechanical seal leaks not found and repaired could be resulting in additional VOC emissions of at least 80 million lbs. annually.

VOCs contribute to ground-level ozone, a principal component of smog, which can cause significant health and environmental problems.

Everyone wants to do their part to be socially responsible and to protect the community from potential long-term health exposure. The RTA tandem seal means less emissions and a brighter future for generations to come.

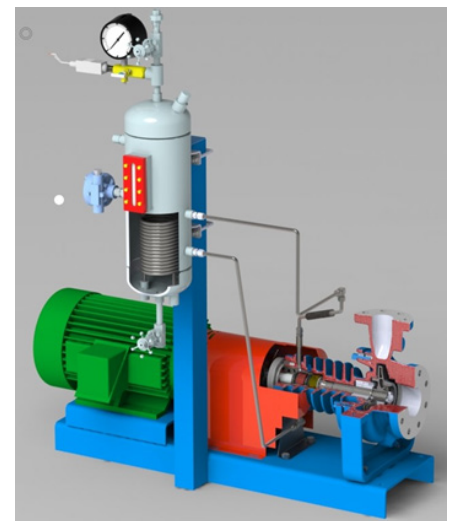
### COST

In our served markets, saleable products are lost whenever emissions escape from process equipment. Lost product generally translates into lost revenue.

### SAFETY

Your employees are your biggest asset and their safety needs to be everyone's priority. On-the-job injuries not only damage employees well-being, but also the well-being of your business, as you want to avoid any OSHA recordable incidents.

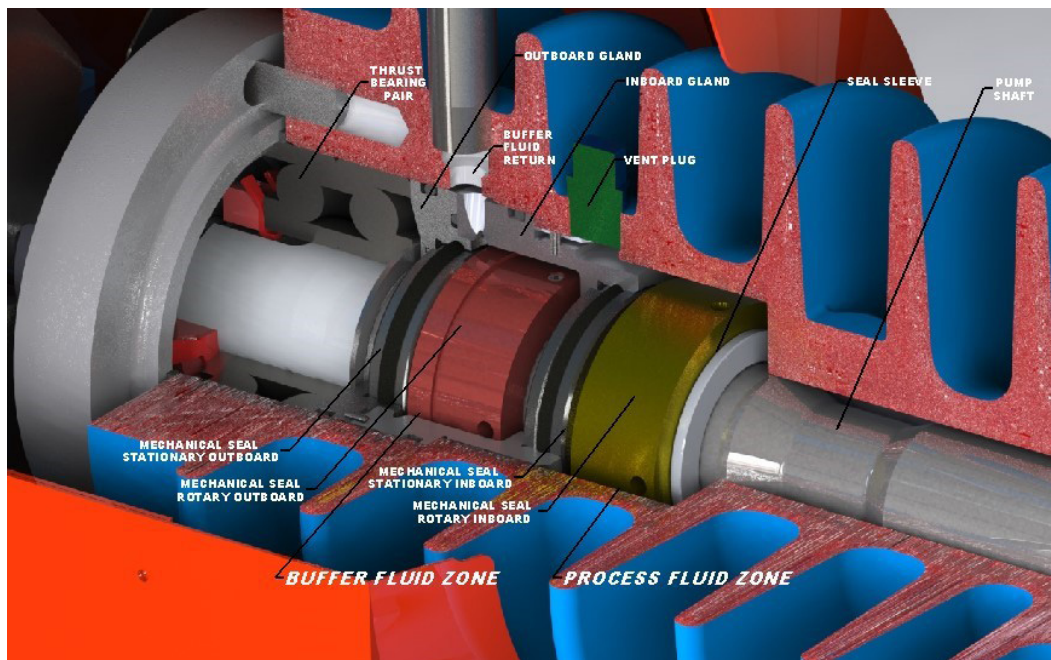
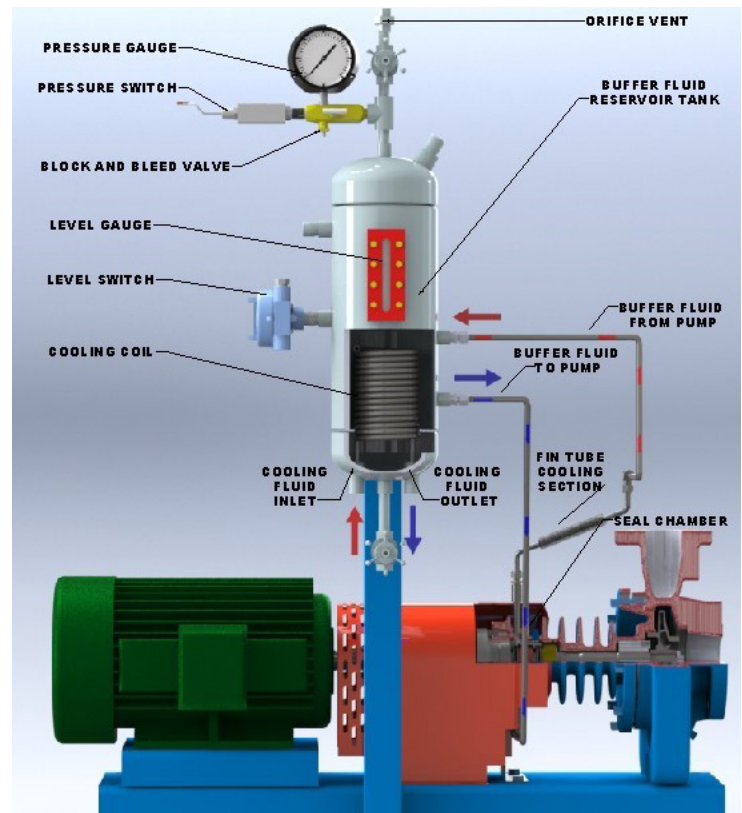
The RTA tandem seal will reduce the exposure to toxic and flammable fluids, creating a safer environment for your plant employees.



# DEAN PUMP ALWAYS WORKS TO PROVIDE INNOVATIVE SOLUTIONS TO MEET OR EXCEED GOALS OF THE INDUSTRY AND RELEVANT REGULATORY INDUSTRIES

## FEATURES

- Capacities to 1,100 GPM (250 m<sup>3</sup>/hr)
- Heads to 425 feet (130 m)
- Pumping temperatures to 650°F (343° C)
- Working pressures to 350 PSIG (2,413 kPa)



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