



**Quality Petroleum Equipment  
Solutions for Over 20 Years**

**Reducing/Eliminating MLLD False Alarms**  
**The ARM-4073**

# What is an ARM?

Auto Repressurization Module

ARM-4073



# Why Do We Build the ARM-4073?

- To increase confidence in the leak detection system, by eliminating thermal induced false alarms.

# How Does Thermal Contraction Cause Slow Flow?

- Thermal contraction reduces volume/pressure in the line when the submersible pump is off.
- Vapor pockets form in the line to replace the (contracted) liquid.

# Thermal Contraction Continued

- The leak detector cannot refill the line and compress the vapor pocket in the 4-5 seconds available.
- Therefore: leak detector is still in slow-flow at opening of nozzle = false alarm.

# How Does the ARM Combat Thermal Contraction?

- By cycling the submersible to repressurize the line.

# Doesn't That Defeat the Purpose of the Leak Detector, Preventing It From Working?

- Not in the manner the ARM is designed to work.
- This is the difference between an ARM and a cycle timer.



# How Does the ARM Function?

- Allow the submersible to stay off long enough for the leak detector to reset if there is a 2 GPH leak (or less).
- Cycle the submersible on and check for a leak.

# How Do We Know the Leak Detector Is Reset?

- Each line is unique.
- To ensure the leak detector is reset, we have the installer measure the bleed-back (line resiliency).

# Reset Continued

- Bleed-back gives us the unique volume each line has before a leak detector is reset.
- Cycle times are based upon this volume (set at install).

# The ARM-4073 Works to Eliminate Leak Detector False Alarms

- Owners benefit through reduced service calls.
- Greater Volume (Less down time).
- Less customer frustration.

# Contact

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