



# Application Case Study

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Product	<b>Pressure Switch coupled with a Diaphragm Seal Assembly and Gauge</b>
Application	<b>Sludge Pump Over Pressurization Protection</b>
Industry	<b>Water &amp; Wastewater</b>

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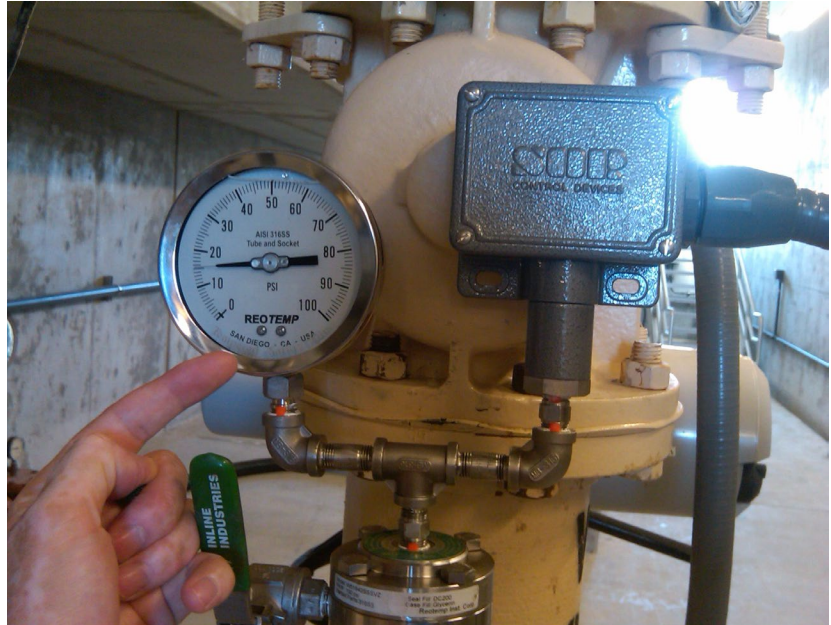
## The Challenge

A West coast waste water facility had to regularly shut down its pumps due to clogging when pumping Activated Sludge.

Under normal circumstances, there is a chance for a “clog” or “slug” to impact flow when pumping sludge to the respective digesters. If this occurs, the nominal operating pressure (20psig) can spike and when 80psig is reached, the facility must switch off their pump. Over the years of operating with a Mercoid switch, its diaphragm seal assembly would consistently clog.

## The Solution

SOR Representative CFM San Diego (CFMSD), replaced the Mercoid Switch with an SOR Pressure Switch coupled with a REOTEMP all welded Diaphragm Seal Assembly and Gauge. The all welded seal assembly allows the customer to isolate the total system, remove it from service, remove the lower housing of the Diaphragm Seal and clean out any clogging without compromising the integrity of the fill. REOTEMP managed the impeccable workmanship with an all welded “Goalpost” T-Assembly. CFMSD hand delivered the first unit and oversaw the installation and testing.



## The Result

The customer was so impressed they ordered two more on the spot.

“Due to the simple, yet rugged, design of the SOR Switch combined with the craftsmanship and total system assembly by REOTEMP, this was my easiest sale to date,” said Jerry (J.P.) Samaniego with CFMSD.