GEORG FISCHER
PIPING SYSTEMS

Signet Tech-Tips

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Title: Retrofit McCrometer

Background: A waste water plant in Southern California was originally fitted with 30 MG914 McCrometer flow meters. Over the years, the facility maintenance department spent many man-hours repairing, cleaning and replacing electronics and propeller assemblies. The replacements of internal components is not only time consuming, but required the plant to be shut down. GF Signet offered an opportunity to the facility manager to test a 2552 Magmeter using the body of the McCrometer.

A slight modification of the McCrometer meter was required.

Installation Preparation:

1. Remove the base plate assembly from the meter. The base plate supports the meter head and the drive assembly which mounts the propeller inside the meters body.
2. Remove the meter head electronics and mechanical drive from the base plate.
3. Weld close to the original electronics port.
4. Machining a clearance hole for a new 1 ¼" nipple.
5. Weld the nipple in place and install the ball/gate valve.
6. Install the Magmeter per the instruction manual.

Benefits:

- Because we are using the McCrometer body assembly, the customer did not have to install a new pipe section to replace the McCrometer.
- Access to maintain and clean the sensor is performed through the gate valve assembly.
- Maintenance scheduling does not have to be scheduled around a plant shutdown.
- Cost of machining the electronic plate and installing the 2552 Magmeter is lower than the cost of replacing the complete McCrometer metering system and or its electronics and propeller assembly.

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