

Monitoring flow on pumps

APPLICATION C111

Type of Company: Public Utility

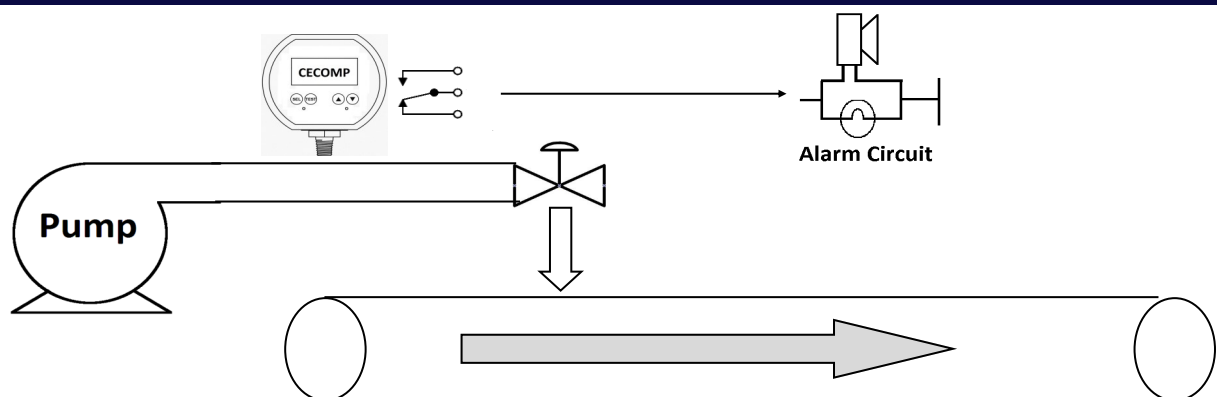
Location: Virginia

Water purification for human consumption is the process of removing undesirable chemicals, materials, and biological contaminants from raw water. The water is treated and tested per Environmental Protection Agency regulations. During the treatment process, chemicals must be added to the water prior to sending it out to the municipal distribution system.



The Engineering Issue

- The engineer has a requirement to use specialized injection pumps for injecting chemical additives into the water.
- The chemical injection pumps were getting plugged up and the proper amount of chemical additives were not being added to the water.



The engineer used a Cecom F16ADA to monitor and alarm the combined pressure on the discharge pipe from the pumps. If a pump problem like a blocked line occurs the pressure would drop signifying a problem and the F16ADA low alarm contact would actuate a remote alarm light and sound a horn to notify the operator that there was a pump problem.

Problem. Solved.