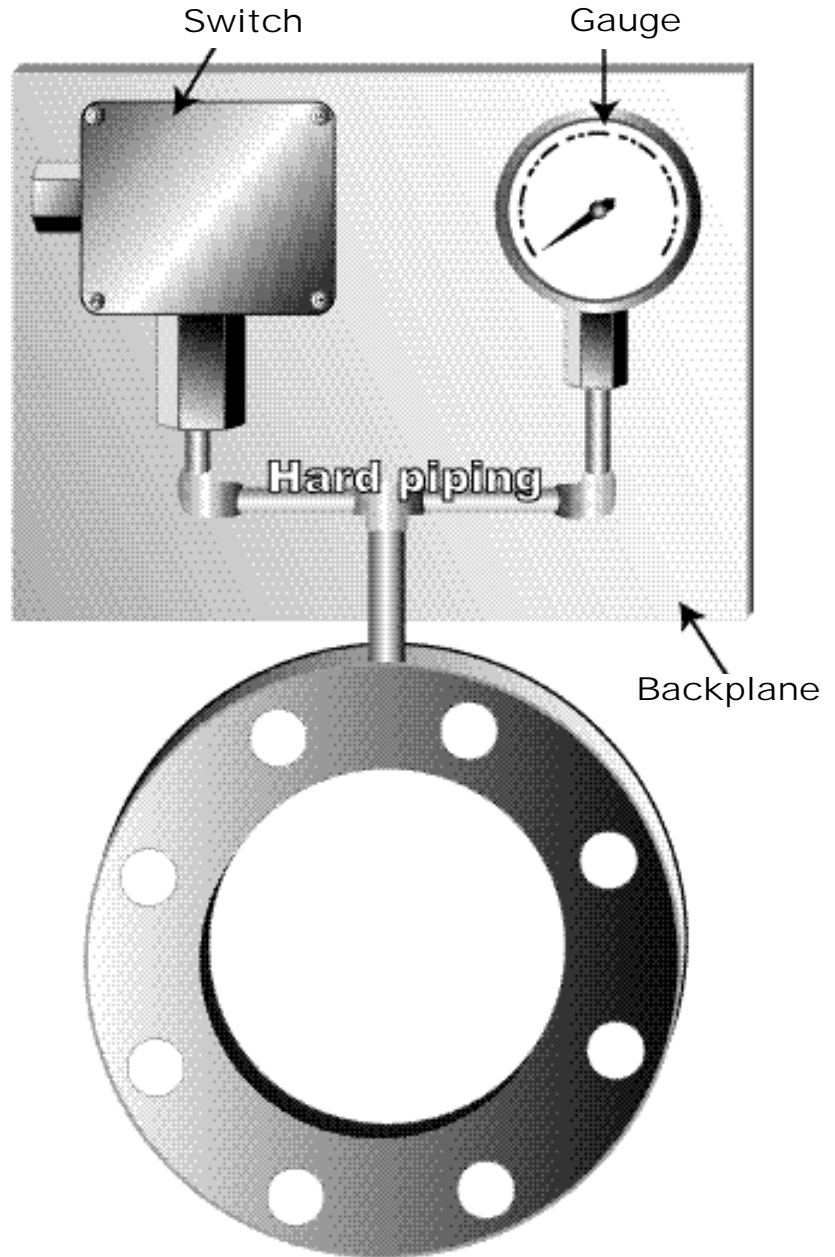


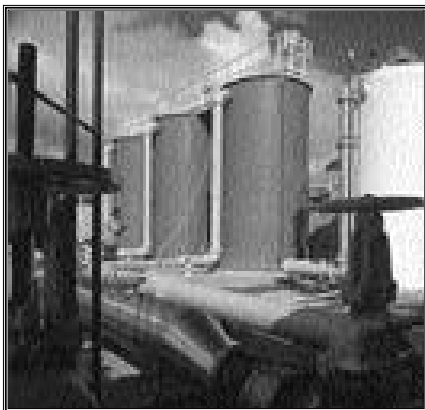
Waste-Water

Pressure Switch Applications

PROBLEM: For many applications in waste-water facilities, there is a need for alarming, monitoring and local indication of pressures. When sensing sludges and slurries, an isolator ring is used to prevent plugging of the pressure instrumentation ports. For cost and space reasons, multiple instruments are frequently mounted in a piping "T" arrangement to the isolator. There are some problems with this type of assembly. Where a pressure switch and gauge are combined, there may be as many as 9-10 potential leak points in the piping assembly!



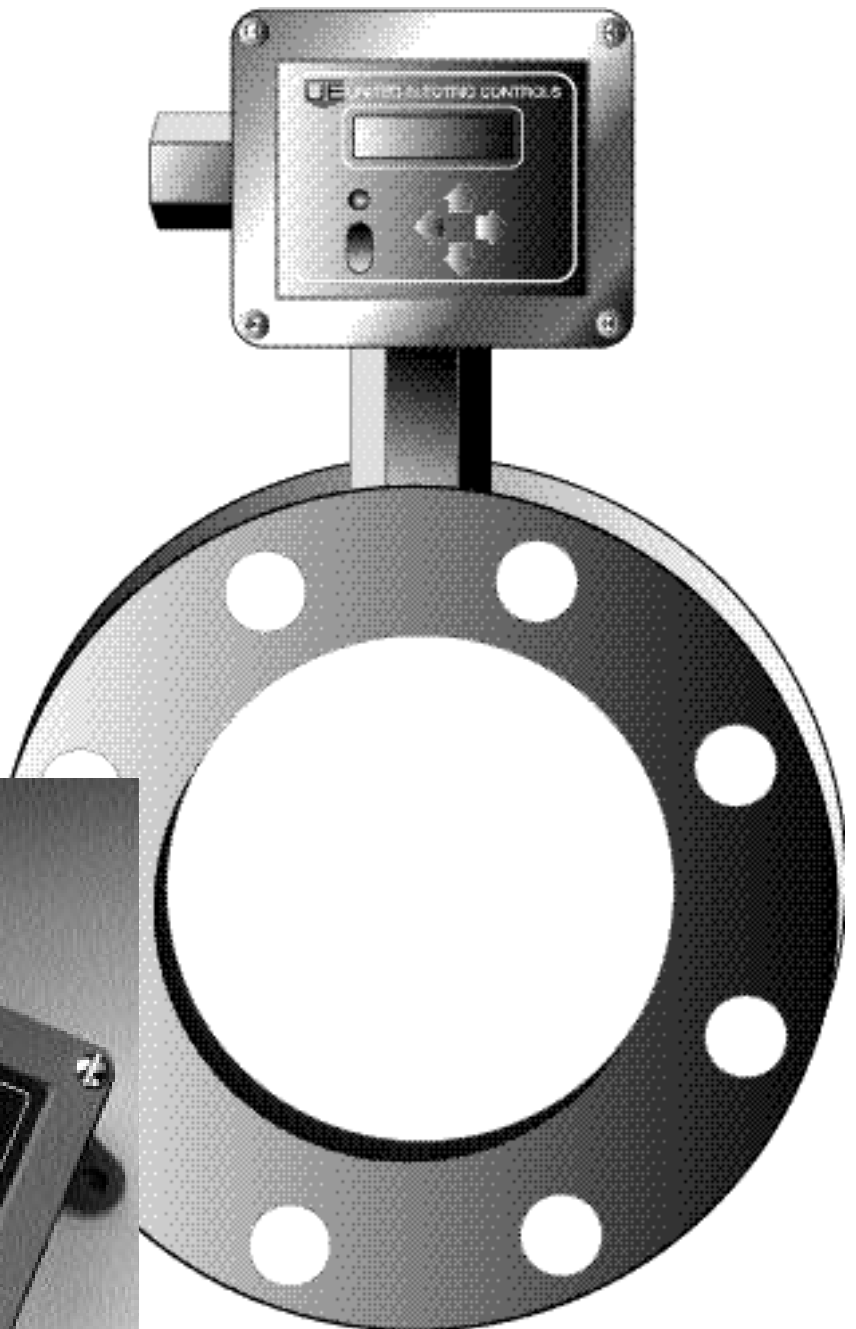
Typical Isolator-Ring Assembly



Waste-Water Plant

A leak at any point would render the entire assembly non-functional, exposing the pump or process to damage. In addition, the space needed for such an assembly is large, typically 1.5 to 2 sq. ft. And, finally, the cost for installing, calibrating and maintaining these assemblies can also be high.

SOLUTION: United Electric Controls' One Series Switch is a cost-effective alternative to the typical mechanical gauge and switch assembly. By mounting the One Series directly to the isolator ring, the potential leak paths are reduced from 10 to 2. Switching and indication are simplified, done by the same instrument. The addition of an optional 4-20 mA analog process monitoring signal can also be provided, thereby combining a total of three functions in a single instrument! Another benefit is the greatly reduced size. The result is that overall reliability is significantly increased and calibration/testing becomes much easier.



For more information call: