

INLINETM

with Hoffer Flow Controls

Hoffer Helps Pharmaceutical Giant "WFI" Headache

Ultrapure deionized water is commonly used in the health care industry to manufacture products such as eye drops, nose spray, and hygiene products. This highly purified water, sometimes referred to as "WFI" (Water for Injection), presents many challenges for a flowmeter. WFI is nonconductive, corrosive in nature and requires a sanitary style flowmeter. The Hoffer 3A Series meets the requirements and is used routinely throughout the industry with excellent results. The sanitary design, 316 stainless steel construction and wide turndown make the 3A Series an excellent solution for a WFI application.

Health care industry regulations require that all flow measurement and other process devices must be fully "CIPable", or suitable for "Clean in Place". This means that the flowmeter must be fully cleaned when it is flushed with a suitable cleaning product or steam. The Hoffer 3A series of turbine flowmeters incorporates a design that is fully cleaned when flushed. Furthermore, this series of flowmeters is available with a hard carbon composite sleeve bearing that is suitable for steam cleaning. Other turbine flowmeter manufacturers offer sanitary turbine flowmeters with Rulon (a PTFE compound) sleeve bearings. Rulon's maximum operating temperature is typically +250° F, which is not suitable for steam cleaning above 15 psig. The Hoffer 3A meter supplied with a hard carbon composite sleeve bearing offers a temperature rating suitable to +850° F.

Recently a Hoffer customer, an international manufacturer of health care products who employs 54,000 people, looking for a solution to a problem came to Hoffer to discuss a WFI application. The flowmeters currently used in their WFI process were routinely being replaced. The cast internal assembly with a Rulon sleeve bearing was deteriorating after a few (CIP) steam-cleaning cycles. The down time, replacement cost, and

potential contamination from a deteriorated set of internal: required immediate attention and a quick resolution from their maintenance personnel determined that the Hoffer 3A flowmeter was the most accurate solution for the application.



The 3A Series provides flow capability from .25 to 800 GPM ranging from 1/4" through 3". The 3A turbine flowmeter provides turndown range of 10:1 to 40:1 depending on flowmeter size. A clamp type sanitary process connection is standard and the meter is fully "CIPable". Construction consists of 316 stainless steel body and hangers (316L stainless optional), 17-4 ph stainless steel rotor, and a carbon composite sleeve bearing.

Hoffer is pleased to provide 3A sanitary flowmeters for the health care industry. Perhaps a process in your plant includes deionized, demineralized, or "WFI" water? Or it must meet 3A Sanitary requirements? Let us help. We have been providing turbine flowmeters throughout the world for almost 30 years.

