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Agriculture
Chemical Processing
Fuels & Energy
Sanitary
Water

Subject: FDA Approved Materials
Date: September 11, 2008

This notification confirms that the Versa-Matic Food Processing/Sanitary Pumps and 3A pumps are constructed with the following food complaint materials:

- ❖ Water chambers, and manifolds are made from 316 SS that has been ¹electropolished per ASTM B912
- ❖ Inner Plates are made from 316 SS that has been ²passivated
- ❖ Valve Seats are made from 316 SS
- ❖ Diaphragms and Balls are made from Virgin PTFE or 4069FG Hytrel
- ❖ Valve Seat O-rings are made from Virgin PTFE
- ❖ Center Sections, Air chambers and Air valves are made from Nickel plated aluminum or polypropylene

¹Electropolishing refers to an electrochemical process by which surface material is removed by anodic dissolution, "reverse plating". Electropolishing delivers a smoother more reflective surface that reduces product adhesion and dissolves free iron, inclusions and embedded particles from the surface of the part. Electropolished stainless steels are better suited to resist the onset of pitting corrosion, crevice corrosion, localized galvanic corrosion, stress corrosion cracking and microbiologically influenced corrosion.

²Passivation is a non-electrical process that chemically removes free iron and other foreign contaminants from surfaces. Chemical passivation will improve the corrosion resistance of stainless steel. The presence of exogenous surface contaminants may disrupt the formation of stainless steels' naturally corrosion resistant surface layer. During a chemical passivation treatment the surface of a part is chemically treated by a mild oxidant.