

Equipment Technical Bulletin

Summit New Flow Switch/Manifold Adapter Fitting



PROBLEM

A couple customers have had problems in the field with chemical attack on the flow switch.

SOLUTION

Beta Technology's investigation, filming the flush in action on a clear manifold, showed that when the flush shuts off, the inertia of the water creates a vacuum in the manifold, which can draw a minute amount of chemical into the manifold through the check valves. This chemical residue then mixes with the water in the manifold, and over time attacks the flow switch. The flow switch is relatively chemically resistant, but a few countries have had recurring problems with flow switch failures due to this problem. To solve the problem, a white check valve will now be installed as the connector between the flow switch and the manifold.

Both the black adapter fitting, which was replaced by a tougher brass fitting, and the brass fitting, have been replaced by the white fitting, which has an integral check valve to keep chemical from getting into the flow switch, and is made of a more durable material than the black fitting so it can't be broken as easily

Original Fitting



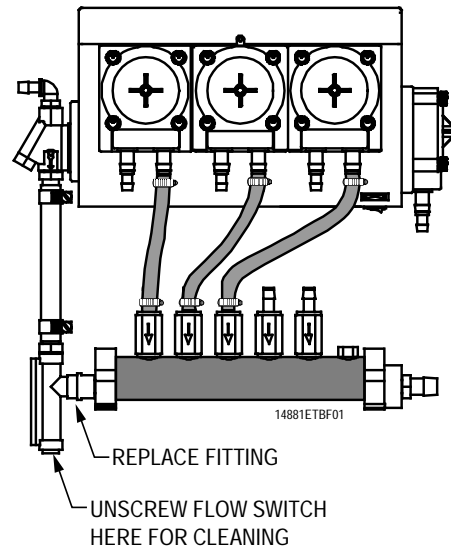
Second Fitting



New Check Valve Fitting 1202119



In an account suffering from problems, when changing the fitting it's best to remove the screw plug at the bottom of the flow switch, shown on the bottom left of the enclosure below, and rinse the parts briefly in water to remove any chemical residue. If the spring looks corroded or otherwise damaged, replace the flow switch. When reassembling the insert and fitting into the flow switch, insert the flat end of the insert into the flow switch so the concave end is sticking out, and then add the spring and plug.



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