

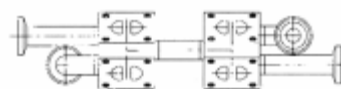
Sterile Barrier

The new **Pure-Flo® Sterile Barrier** designs address the inherent performance issues related to achieving sterile barrier technology, utilizing a small dimensional envelope while minimizing contact surfaces and hold up volume.

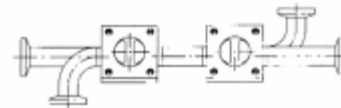
The Divert **Valve Sterile Barrier** assembly consists of two, 2-Way divert valves welded back to back. The Integral **Sterile Barrier** assembly consists of four valves machined from an integral block of stainless steel. The common chamber for both designs is located in the center of the assembly and the independent ports are located on the ends of the assembly. The assemblies consist of two product valves, a steam injection and a condensate drain valve. When the two product valves are open and the steam injection and condensate valves are closed, product flows through to the reactor. When the product valves are closed, a chamber is formed between the two divert valves which when injected with steam provides a sterile barrier isolating the reactor. The result is a sterile barrier with a small dimensional envelope, minimal contact surfaces and minimal hold up volume. Each valve can be supplied with either manual and/or automatic actuators.



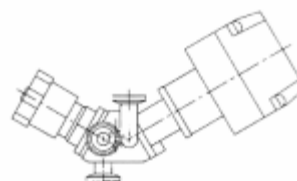
Divert Valve Sterile Barrier



Top View



Front View

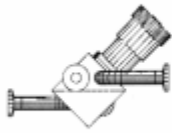


Side View

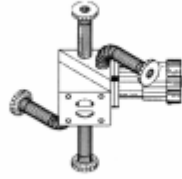
Materials and Specifications

- 316L Stainless Steel, ASTM A479 wrought bodies, valves sizes 0.50" through 1.0". Standard ANSI 316L Stainless Tubing.
- Assembly available with FDA compliant PTFE and EPDM diaphragms. Interior surface finishes available with mechanical finishes from 11 in. Ra to 35 in. Ra. Electropolish over mechanical surfaces is also available.
- Bio-Tek bonnet assemblies are standard for 1/2" valve requirements. PAS, stainless steel, nylon coated, PVDF coated or white epoxy manual bonnet assemblies are available for larger valve sizes.
- Diaphragm driven pneumatic Advantage Actuators are also available.

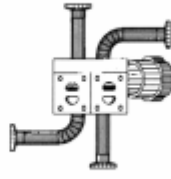
Integral Sterile Barrier



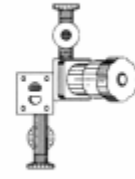
Top View



ISO View



Front View



Side View