

PROCESSES FOR FILTERING LIQUIDS USING SINGLE PASS TANGENTIAL FLOW FILTRATION SYSTEMS AND TANGENTIAL FLOW FILTRATION SYSTEMS WITH RECIRCULATION OF RETENTATE

ABSTRACT OF THE DISCLOSURE

Methods of filtering a liquid feed are disclosed. In one version, the method comprises passing a liquid feed through a single pass tangential flow filtration (SPTFF) system and recovering the retentate and permeate from the system in separate containers without recirculation through the SPTFF system. In another version, the method of filtering a liquid feed, comprises passing a liquid feed through a tangential flow filtration (TFF) system, recovering permeate and a portion of the retentate from the system in separate containers without recirculation through the TFF system, and recirculating the remainder of the retentate through the TFF system at least once. The methods can be performed using an SPTFF or a TFF system that comprises manifold segments to serialize the flow path of the feed and retentate without requiring diverter plates.

Figure.1