

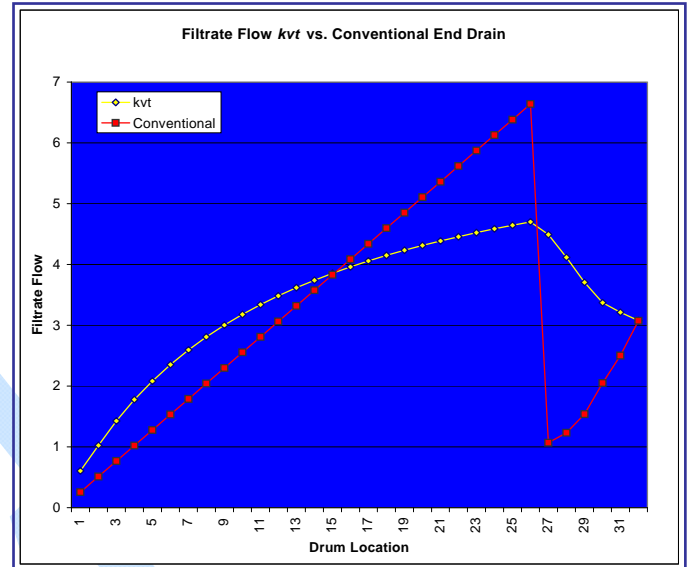
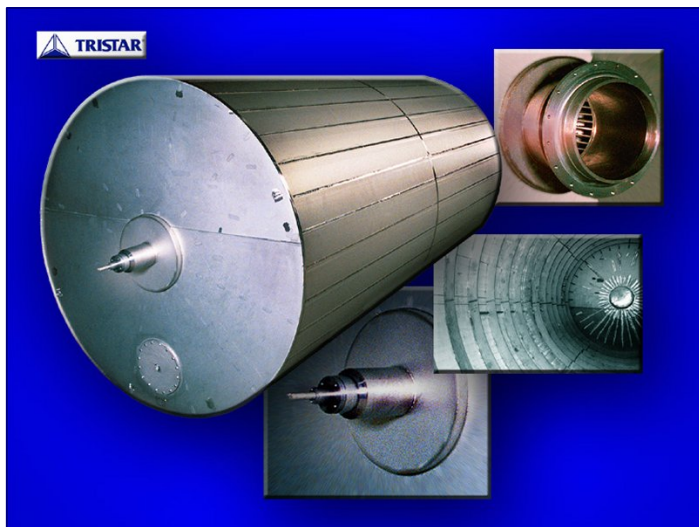


Tristar's Mark V with *kvt* Delivers Performance

The *Mark V* is our most recent addition to our washer line. This end drainage drum incorporates patented *kvt* head design to dramatically improve the discharge consistency and vacuum of our washers. *kvt* or *Constant Velocity Technology* realizes both the maintenance advantages of end drainage washers and the superior performance of pipe washers. This design, *exclusive to Tristar*, is the most significant advancement in vacuum filter technology since the corrugated deck. Simply put: **this washer will out perform any end-drainage washer on the market and we'll back it up with a performance guarantee.**

Not only does our *Mark V* design deliver a strong constant vacuum it also has many added benefits such as:

- Proven anti-rewet corrugated deck technology.
- The ability to be driven from either end via the standard worm and bull gear drive or a shaft mounted drive on the non-valve end.
- An inherently stronger drum due to the unique head design.
- Can be fit with our infinitely adjustable non-contact High Discharge Valve.
- Sure-Fab strapping ring design ensures panels stay in place.
- In operation Caustic Injection Port for acid stage washers adds peace-of-mind in the event the filter's internals are compromised.
- Available tapered inner deck for enhanced performance.



The graph illustrates the difference in filtrate velocity between older end drainage washers and the *kvt*.

Why *kvt*?

A weakness of current designs is that the first principle concept of maintaining a uniform filtrate velocity has been abandoned. In current end-drainage designs the filtrate flows from underneath the decking into a segmented chamber in the filter head. Owing to the geometric configuration of the segmented chamber the cross-sectional area of the conduit is much larger at the periphery than towards the centerline of the filter. This sudden increase in the cross-sectional area causes an immediate reduction in filtrate velocity and consequently lost vacuum potential. Until the *kvt* innovation this has been the sacrifice made when installing low maintenance end drainage washers.



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