

Maintenance Intervals for Becker VT 4.10, 4.16, 4.25 & 4.40 vacuum pumps and VT 3.10, 3.16, 3.25 & 3.40 vacuum pumps

Weekly

Action: Blow out intake filters.

Direction: Remove 5 mm allen head screws from the front covers to access filters. Pull out filters and blow out. Replace filter if dirty, or if the filter is dried out and the paper element rips or tears when a finger is run across the pleats.

Action: Blow off exterior of pump.

Direction: Using compressed air, blow off the exterior of the pump. Be sure to hit all crevasses and exterior openings.

Note: You may find that the filters and exterior of the pump in your operation may not require cleaning as often. These are basic guidelines, some applications are "cleaner" than others. You may stretch this time to 4 to 6 weeks if the filters are staying clean.

Bi-Yearly to Yearly

Action: Check Vanes

Direction: Follow directions above for filter removal. After filter covers and filters are removed, find 5 mm allen head screws on the exposed pump end shield. Remove them and the end shield should come off. Pull out vanes. Blow out exposed pump cavity and rotor area with compressed air. Clean the end shield where it rests against the rotor with a non-residual solvent. Look at the end shield and check for heat damage or scoring. If any is present, contact your Becker factory representative. Check vanes for minimum width (see below). Replace if, at or below the minimum width. Next check for excessive cupping of the flat surface. If cupping exceeds 25% of the factory thickness (see manual), replace the vanes. Vanes are installed so that the bevel of the vane surface rides flatly against the cylinder wall. If the vane is in backwards, you will notice that it will contact the cylinder wall only at 1 point. Check for pitting along the leading edge of the vane, where it rests against the cylinder wall. If any is present, contact your factory representative. If all looks well, re-install the vanes, end shield, and filter housing.

Minimum Vane Width:

VT 4.10 & 3.10 – 0.829"

VT 4.25 & 3.25 – 1.339"

VT 4.16 & 3.16 – 1.063"

VT 4.40 & 3.40 – 1.339"

Tips for increasing vane life

Vane life is mostly dependent on two things. Pump temperature and vacuum/pressure level. Keeping the pump cool is the first way to increase vane life. Keep debris and dirt off the pump. Keep filters clean. Do not install the pumps where there is little airflow or high ambient temperature.

Vane life is partially dependent on the vacuum/pressure that the pump is run at. The higher the vacuum or pressure level, the shorter vane life.