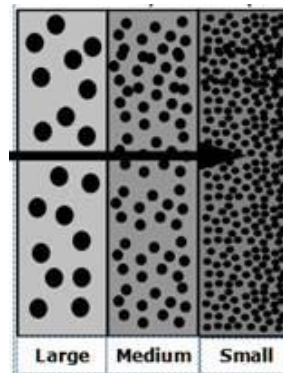


## Control Specialties offers a complete range of Replacement Filters.

Most rotary pumps have a built-in inlet filter to protect the pump internals. Internal filters will handle inlet air to the pump with small to modest amounts of very small particles. If the suction connection to the pump is dirty, you should add an auxiliary inlet filter. Filtering out contaminants should be treated as a progressive process. Think of throwing beach balls, basketballs, baseballs, and tennis balls into a wooded area. The large balls will drop out first and the small balls will penetrate further into the woods before hitting a tree and being knocked down. Filtration of suction air should also be treated in the same manner. By count, the number of smaller particles will outnumber larger particles by a substantial amount. To clean air effectively and not go insane changing filter elements requires a step approach. Take out the beach and basketballs first, then hard and soft baseballs, and finally the golf ball and smaller sized particles. Apply a golf ball filter to beach and basketball sized particles and you will quickly clog the filter leading to a major maintenance headache-frequent filter change.



Not changing clogged inlet filters will lead to premature failure of the pump since the suction air allows for proper cooling of the pump. As pump temperatures rise, carbon vanes will undergo accelerated wear and oil in lubricate pumps will begin to cook and breakdown, leading to lubrication issues. Pay attention to filters in your pumps to avoid costly down time and repairs. A costly mistake is to ignore noise coming from your pump since rotary vane pumps tend to be quiet in normal operation compared to other types of vacuum pumps. Since we repair pumps, we often see pumps which have been run as noise and temperature levels have risen above normal levels. This will only increase the damage to the pump and the resulting cost to repair the pump. If your pump noise and temperature levels are above normal levels, shut the pump down immediately.

**Call us at (800) 752-0556 or email at [info-control-specialties.com](mailto:info-control-specialties.com).**

**Check out our website – [www.control-specialties.com](http://www.control-specialties.com)**

## Choosing the Best Filter for your Equipment:

A. Connection & Airflow Known: When the connection & airflow is known:

- Select appropriate connection style. (i.e.: MPT, Flange, NPSC, etc.)
- Check assembly SCFM (flow) rating. Compare with your required airflow. (Note: Assembly flow ratings are based on 6,000 FPM or 30m/sec for a given connection size to achieve low pressure drop performance. When required flow exceeds assembly flow rating, the pressure drop through the outlet connection will increase. In such cases select by element SCFM (flow) rating.)
- When required flow rating matches connection size; skip to “C. Selecting Elements”.

B. Unknown Connection: When the connection size is unknown, flexible, or the required flow rating exceeds assembly flow rating:

- Match required flow rating with the element flow rating.
- Choose related connection size.

C. Selecting Elements: The filter performance is influenced by the actual application duty and the equipment it is installed on. Regular maintenance checks and proper servicing is required.

## Application Duty Descriptions:

Industrial Duty: Clean workshop or clean outdoor environment - small element sizing is sufficient.

Severe Duty: Dirty workshop, wastewater – medium to large element is recommended.

Extreme Duty: Cement, steel making, plastics or dusty material conveying – Largest element sizing is recommended.

A. Select media required by your application. Options include:

- Standard media
  1. Polyester: All purpose; it withstands pulses, moisture, and oily air
  2. Paper: Mostly dry, smooth flow applications
- Special Media: For a variety of micron levels and media types

B. Select Element size by matching the element with the anticipated duty and upsize accordingly.

**Let Control Specialties help you find the right replacement filter for your specific need.**

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