

Graco equipment supports quality filter production

Filter manufacturing is a significant global industry. Filters are used in motor vehicles (air and fuel filters), industrial water purification, residential water purification, medical blood purification and clean rooms (air filters).

Application

Filter manufacturers use plural-component adhesives and potting compounds to bond and secure filter elements and media into assemblies. During the past 20 years, plural-component materials have replaced traditional single-component plastisols because they offer room temperature cure compared to oven cure. Manufacturing plants are saving energy costs by switching to the plural-component compounds because these materials cure at room temperature – no oven curing is required.

In the filter manufacturing process, ratio accuracy is critical for material performance. Without proper ratio assurance, manufacturers face the expense of wasted material, scrapped parts and re-work, increased operating costs and reduced profitability

Motor vehicles and internal combustion engine filters

Air, oil, and fuel filters are used. Applications include end cap molding, bonding and sealing.

HEPA (High efficiency particulate air) air filters

Most often, these filters used in hospitals and clean rooms. This application includes bonding filter elements to frames.

Liquid purification and separation filters

Liquid purification and separation filters are used for industrial water purification and medical blood purification applications. Applications involve adhesives and potting compounds for spiral wound and hollow fiber membrane filters.



Equipment solution for the filtration market

Graco equipment for filter bonding applications is designed for accurate, on-ratio dispensing. Properly proportioned material means less scrap, less re-work, improved yield, increased production uptime, better overall productivity and more confidence in end results and quality. Graco offers two product platforms for metering and dispensing adhesive and potting compounds for filter applications.

The Graco HFR Metering System, a hydraulic fixed ratio unit with a ratio range of 1:1 to 32:1, offers continuous flow bead dispensing (manual or automated). It offers a flexible shot size range and is well suited for larger shot sizes (10 cc's and above).

The Graco PR70 is a pneumatic system that accurately meters, mixes and dispenses two-component low- to high-viscosity materials for bonding, sealing, molding and potting applications. The PR70 is an economical solution for smaller shot size sizes (2 to 70 cc's) or bead dispensing.