



Inprinta is the inkjet sales division of Porvair Filtration Group, a world class filtration company delivering global solutions in Nuclear, Aerospace, Bioscience, Energy, Food, Beverage, and Industrial Process.

About Inprinta

Inkjet filtration assemblies are manufactured in our ISO accredited site in the United Kingdom. The extended range of filters offer solutions to inkjet requirements through capsule, in-line, last chance, and bulk ink filtration.

Our direct-to-market filters are readily available with a wide range of options for many inkjet requirements. Inprinta provides full access and technical support to OEM partners in the design, engineering and manufacturing of new and bespoke filtration devices for all inkjet printer and printhead applications.

Technical Support

Our experienced support team are available to assist with all your filtration requirements. As well as our belief in a flexible and efficient service, Inprinta's philosophy of building strong relationships with our partners enables us to better understand business needs and react to supply the correct technical product in this challenging market sector.

The technical team at our primary facility in the UK are positioned to offer total engineering support to our customer base through design, manufacturing and education in filtration. This is strongly backed up by our US facility in Ashland, Virginia, serving the American continent.

Capsule Filters

Inprinta capsules are self contained, ready to use, disposable devices. The filter body is constructed with natural or opaque black housing and available with a wide range of connector configurations to suit different systems.

All capsules will provide consistent, reliable printing performance with maximised print head protection.

Filtration Technology

The filters are manufactured using a range of different materials and design characteristics. Pleated polymeric membranes are engineered as the principal barrier to any foreign bodies or aggregates.

An integrated secondary level of protection is added through an innovative design and the utilization of BioVyon™ as a central column filter. BioVyon™, a co-sintered solid-state separation material, is manufactured from an ultra-pure, highly modified polymeric material with the lowest levels of particulates and extractables.

In-Line Filters

Inprinta in-line and last chance filters are self contained, ready to use, disposable devices. Filter bodies are manufactured from a range of plastics and metals to provide filters that are safe, inert, durable and strong.

High quality filter media will guarantee critical printhead protection down to $1\mu\text{m}$ in fluids. Also within this range of filters are our air filters. These sub-micron barriers will ensure pure filtered air with no risk of liquids or contaminants.

Filtration Technology

Filters are manufactured utilising a host of different materials. Polymeric membranes, stainless steel mesh and metal fibre are all offered within the product range. All filters will provide barriers to foreign bodies or aggregates within the ink system.

Where air filters are used, hydrophobic membranes of $0.2\mu\text{m}$ are offered as standard. This ensures dirty air and liquids are cleared from the system.

Bulk Filters

Inprinta supply Klearfil™ and Tekfil™ as a complete range of 10" filter cartridges for the manufacture of bulk inkjet fluid. These Meltblown polypropylene cartridges are based on a robust all polypropylene construction, offering removal ratings from $0.5\mu\text{m}$ to $75\mu\text{m}$. Suitable for the filtration of aqueous and organic liquids, Klearfil™ and Tekfil™ cartridges can be used as prefilters, series filters or final filters in the manufacture of bulk inkjet fluid.

All filters have excellent chemical compatibility characteristics and have no surfactants or bonding agents, to minimise extractables and are manufactured in an ISO cleanroom.

Filtration Technology

A combination of up to 8 separate filter layers provides true depth filtration. The multi-layer media structure provides pre-filtration prior to the absolute rated final layers and the inherent structural stability prevent channelling and avoids the risk of particle unloading.

Efficient through-flow is achieved with the combination of irrigation mesh and drainage material alongside the multiple layers of filter media.

All cartridges are validated using the recognised industry standard modified OSU-F2 single pass test to Beta 5000 (99.98% efficiency).

FDA approved material is used on all bulk filtration assemblies.



Product Development

From initial concept design through manufacture and validation to in-service support, our highly experienced team of dedicated engineers work to develop filtration solutions.

As part of the Porvair Filtration Group, the Inprinta inkjet research and development unit is able to utilise all areas within its extensive development laboratories. The latest engineering tools of 3D CAD, Finite Element Stress Analysis, CFD Computational Fluid Dynamics and bespoke pressure vessel design software (PD5500, ASME VIII, BS EN13445) combined with over 30 years of proven experience and knowledge and a strong ethos of working closely with our customers, ensure filtration solutions that meet customers' requirements.

Porvair is well known for filtration assemblies in Aerospace, Nuclear, Bioscience and Industrial applications. The development team use cross-market intelligence to drive new ideas and produce new devices that benefit the Inprinta inkjet division through new materials and processes.

Our dedicated Test and Development Centre and Laboratory Services underpin our design and development activity from filtration media/material characterisation and product verification testing to customer systems simulation trials and in-service performance evaluation.



Contact us

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Inkjet Filtration

