

INSERT INJECTION MOLDING

Ron-Vik has years of experience in manufacturing insert injection molded filters for our proprietary in line strainers. We have expanded our insert injection molding capabilities to allow us to design and manufacture a wide range of insert molded custom products. Most of these products combine cylinders or flat blanks with thermoplastics or thermoplastic elastomers (TPE's). These products offer significant advantages over metal on mesh, welded or soldered designs.

These components are made by taking a prefabricated mesh form and putting it into an injection mold. The mold closes around the mesh and plastic is injected to create a gasket and/or a support cage. Mesh sizes range from 1 micron openings up to 2000 micron openings. Our experienced engineering staff will assist you in the design of a component that will achieve your desired results.

Common Materials

Support cage/gasket materials

- Nylon: most varieties including filled
- Polypropylene: homopolymers and copolymers including filled
- Polyethylene: high density and low density
- Polyester: most varieties including filled
- Acetal: homopolymers and copolymers including filled
- Santoprene® in most durometers
- Geolast® in most durometers
- Others: contact us if you need a material that is not listed

Filter Materials

- Stainless steel: most alloys, 2 to 2000 micron
- Other metals: most alloys including epoxy and Teflon coated
- Nylon from 1 to 2000 micron
- Polyester from 1 to 2000 micron
- Polypropylene from 75 to 2000 micron



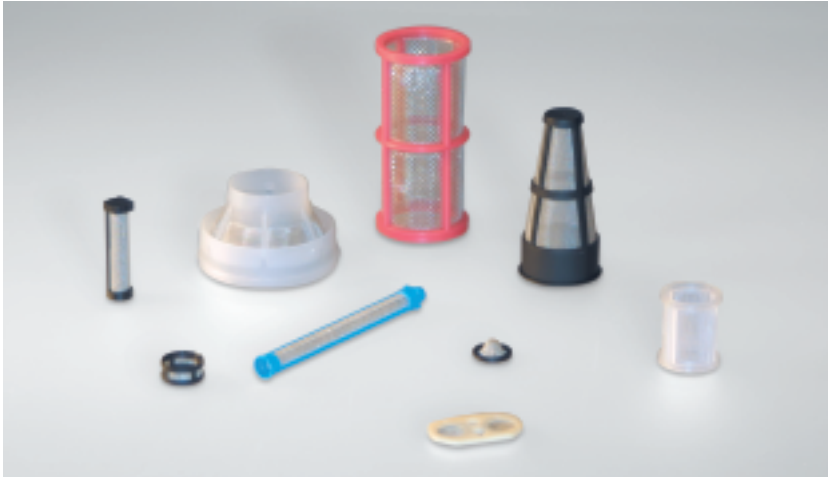
conceive
develop
manufacture
QUALITY

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CYLINDERS AND CONES

Cylinders and cones are ideal for applications requiring a maximum amount of surface area. Parts can be designed with the flow going from either inside/out or outside/in. Basic design considerations should include:

- Maintain as consistent cage/gasket cross section as possible.
- Keep above cross sections over .050" wherever possible.
- Incorporate at least one, preferably two longitudinal ribs to cover seams in mesh.
- Add circumferential ribs as necessary for strength.
- To allow for easy core pulls, minimize undercuts on ID of part.
- Male threads are best. Use female threads only if absolutely necessary.
- Diameters between .250" to 4" and lengths from .500" to 8" are best.



BLANKS

Both flat and formed blanks are easily insert injection molded. These are ideal designs where space is at a premium. Basic design considerations should include:

- Maintain as consistent cage/gasket cross section as possible.
- Keep above cross sections over .050" wherever possible.
- For domed parts allow for a flat shut-off area on the ID of the cage/gasket.
- To allow for easy core pulls, minimize undercuts on ID of part.
- Male threads are best. Use female threads only if absolutely necessary.
- Keep part size under 18" square



General Capabilities

- Design assistance from a capable and experienced staff of engineers.
- Cylinders, cones, flat and formed shapes.
- Openings of 1 micron to 2000 microns in both synthetic and metal meshes.
- Rigid and soft cages/gaskets. Materials include nylon, acetal, polypropylene, polyester, polyethylene, Santoprene® and Geolast®.
- Parts as small as 5mm in diameter to as large as 18" square



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Fitness for Use and Sellers Liability

The user is responsible for determining whether the Ron-Vik product is fit for a particular purpose and is suitable for the user's method of functional application. It is essential that the user evaluate the Ron-Vik product by inspection and/or testing to assure that the product meets all the design specifications/validation criteria.

Ron-Vik's liability shall be limited to the stated selling price of any defective goods, and shall in no way include purchaser's lost profits or goodwill or any other special or consequential damages incurred by the purchaser.