

Capsule Filters

Disposable

Microcap™ GPNSD

Nano-Spun Polypropylene Depth Capsule Filters



Microcap[™] GPNSD general service grade capsules are designed for the removal of particulate contaminants from chemicals, fermentation broths, buffers, biologicals, beverages, and other liquids.

Constructed with nano-spun polypropylene depth media, these capsules offer a cost-effective solution by removing large quantities of contaminants early in the process, thereby protecting high-value filters used downstream. They are also suitable as standalone filters for clarification or particle removal in less critical applications.

MicrocapTM GPNSD capsule filters achieve 99% retention of contaminants at the rated pore size, with pore size options ranging from 0.5 to 100 $\mu m.$

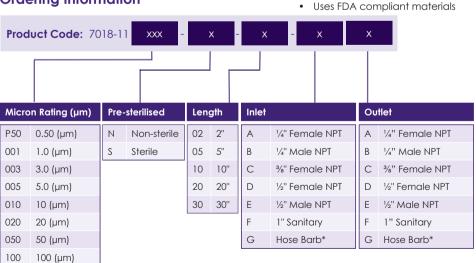
Typical Applications

Microcap[™] GPNSD capsules are recommened for clarification & prefiltration of:

- High Purity Chemicals
- Fermentation Broths
- Wine, Beer, Juices
- Buffers & Biologicals
- Container Wash Solutions
- Inks & Dyes
- CMP Slurries
- Water Purification

Features and Benefits

- Wide range of high efficiency retention ratings
- High capacity for long life
- Designed for minimal extractables
- Non-fibre releasing



Ordering Information

Maximum Operating Parameters

Liquid Operational Pressure	5.52 bar at 20°C (80 psi at 68°F)	
Gases Operational Pressure	4.14 bar at 20°C (60 psi at 68°F)	
Operating Temperature (water)	43°C at 2.07 bar (110°F at 30 psi)	
Reverse Differential Pressure	1.38 bar at 20°C (20 psi at 68°F)	
Recommended Changeout Pressure	2.41 bar (35 psid)	

Sanitisation and Sterilisation

Chemical Sanitisation	Performed using industry standard concentrations of hydrogen peroxide, peracetic	
	acid, sodium hypochlorite and other selected chemicals.	

Specifications

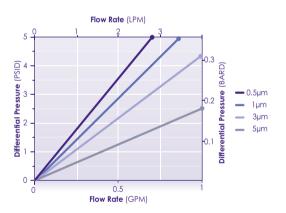
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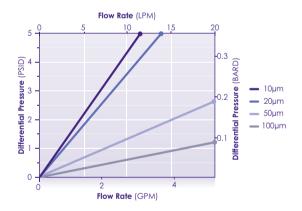
Materials of Manufacture

Housing:	Polypropylene
Filtration media:	Melt-Blown Polypropylene Depth Media
Media support:	Polypropylene
End caps:	Polypropylene
Sealina method:	Thermal bonding

Clean Water Flow Rates

A 2" capsule with 1" sanitary inlet and outlet point, exhibits the flow- ΔP characteristics indicate below, for solutions with a viscosity of 1 centipoise.





PFG776/Rev1:Dec24

Contact Information:

UK, New Milton Division Tel: +44 (0)1425 612010 info@porvairfiltration.com

US, Ashland Division Tel: +1 804 550 1600 infoUS@porvairfiltration.com

India, Mumbai Division Tel: +91 22 2081 1148 infolN@porvairfiltration.com

187