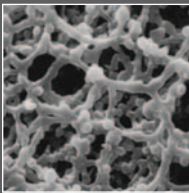


ASYPOR



- Sterilising, microbial and particulate grade filters
- Micron ratings from 0.2 to 3.0 micron
- Steam sterilisable / autoclavable up to 121°C (249°F)
- Integrity testable membrane filtration
- Available in a comprehensive range of endcap configurations for retrofitting

ASYPOR cellulosic membrane combines high asymmetry and porosity with absolute microbial retention to provide flow and lifetime characteristics that surpass usual expectations for micro-porous membranes.

The membrane characteristics are utilised to provide a filter cartridge adaptable to micro-biological stabilisation, sterilisation and bioburden reduction of aqueous solutions within pharmaceutical, biotechnology, ultrapure water and other critical industries.

The membrane has an asymmetrical pore structure where pores on the feed surface are five times larger than those on the downstream surface. This ensures that the full depth of the membrane is utilised to provide graded particle and micro-organism removal, resulting in longer filter life .

available formats



Technical Specifications

Materials of Construction

Filtration Membrane	:	Cellulose acetate / cellulose nitrate mix
Upstream Support	:	Polypropylene
Downstream Support	:	Polyester
Inner Support Core	:	Polypropylene
Outer Protection Cage	:	Polypropylene
End Caps	:	Polyester
Endcap Insert	:	316L Stainless Steel
Standard o-rings/gaskets	:	Silicone/EPDM
Encapsulant	:	Polyurethane
Plasticiser	:	Glycerol
Surfactant	:	Hostapur®

(not flat stock discs)

Food and Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177 and current USP Plastics Class VI – 121°C and ISO10993 equivalents.

Effective Filtration Area

Up to 0.37 m² (4.0 ft²) per 250 mm (10" module).

Retention Characteristics

ASYPOR sterilising grade filters are validated by bacterial challenge testing to methods specified in ASTM F838-83 (10⁷ organisms/cm² minimum) with typical in-house challenge levels being 10¹¹ per 10 inch module

Recommended Operating Conditions

Up to 70°C continuous operating temperature and higher short-term temperatures during CIP to the following limits:

Temperature		Maximum Forward dP	
°C	°F	(bar)	(psi)
20	68	5.0	73
40	104	4.0	58
60	140	3.0	44
80	176	2.0	29
90	194	1.0	15
>100 (steam)	>212 (steam)	0.3	4

Cleaning and Sterilisation

ASYPOR cartridges can be repeatedly steam sterilised in situ or autoclaved at up to 130°C (266°F). They can be sanitised with hot water at up to 90°C (194°F) and are compatible with a wide range of chemicals. Capsules can be repeatedly autoclaved up to 135°C (275°F).

For detailed operational procedures and advice on cleaning and sterilisation, please contact the Technical Support Group through your usual domnick hunter contact.

Integrity Test Data

All filters are flushed with pharmaceutical grade purified water prior to despatch. They are integrity testable to the following limits.

Micron Rating	0.2	0.45	0.65	0.8	1.2	3.0
Diffusional Flow (psig)	35	25	15	12	7	5
Test Pressure (barg)	2.4	1.7	1.0	0.8	0.5	0.4
Max Diffusional Flow (ml/min) (10")	27.0	27.0	27.0	27.0	27.0	27.0

*polypropylene option tested in IPA/Water 60/40 at reduced test pressure

Recommended Rinse Volume

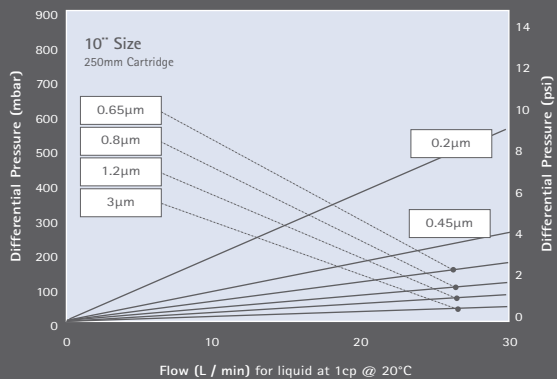
Prior to use – 20 litres per 10" cartridge.

Pharmaceutical Validation

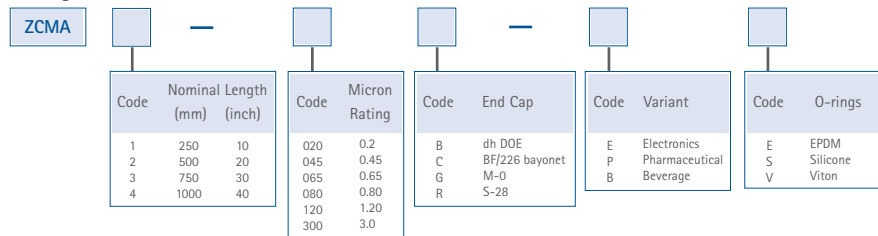
A full validation guide is available upon request with Lab Services Group (LSG) support for specific individual requirements.

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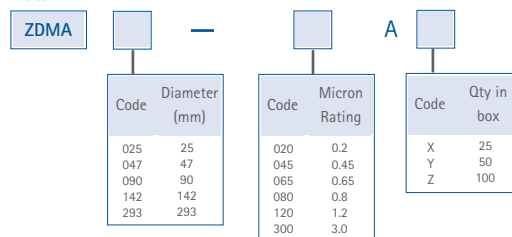
Cartridge Flow Rates



Cartridges



Discs



Durham Road, Birtley, Co. Durham, England DH3 2SF • Tel: +44 (0)191 410 5121
E-mail: process@domnickhunter.com • Website: www.domnickhunter.com

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