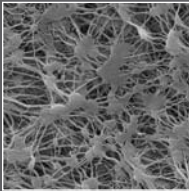


TETPOR LIQUID



- Integrity tested prior to despatch
- Comprehensive range of end cap configurations for retrofitting
- Validated to ASTM F838-83 methodology
- Superior chemical resistance of PTFE membrane combined with polypropylene hardware
- Available in sterilising, microbial and particulate grades

TETPOR LIQUID filters are particularly suitable for sterilisation and particulate removal from aggressive chemicals (including acids, bases and solvents) within a wide range of critical processing industries.

The superior performance, strength and durability of TETPOR LIQUID filters results from the use of a single layer, high security PTFE membrane. TETPOR LIQUID membrane has a high dirt holding capacity due to its high voids volume. This results in low pressure drops and long service life. High flow rates are achieved due to the optimised pleat pack density and the superior design construction of TETPOR LIQUID filters. TETPOR LIQUID filters may be repeatedly steam sterilised or autoclaved up to 135°C, providing the user with assured security of performance.

available formats



Technical Specifications

Materials of Construction

Filtration Membrane	: PTFE
Upstream Support	: Polypropylene
Downstream Support	: Polypropylene
Inner Support Core	: Polypropylene
Outer Protection Cage	: Polypropylene
End Caps	: Polypropylene
Endcap Insert	: 316 Stainless Steel
Standard o-rings/gaskets	: Viton
Capsule Body	: Polypropylene
Capsule Vent Seals	: Silicone
Filling Bell	: Polycarbonate
Syringe Filter Body	: Polypropylene

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 0.75m² (8.1 ft²) per 250 mm (10" module).

Retention Characteristics

TETPOR LIQUID 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 (158°F) 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

Capsules may be operated up to a temperature of 40°C (104°F) at line pressures up to 5.0 bar (72 psig) for liquids and 4.0 bar (58 psi) in air/gas.

Cleaning and Sterilisation

TETPOR LIQUID cartridges can be repeatedly steam sterilised in situ or autoclaved at up to 135°C (275°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 purified water prior to despatch. They are integrity testable to the following limits.

Micron Rating	0.1	0.2	0.45	1.0	
Diffusional Flow Test Pressure	(barg)	1.0	0.8	0.6	+
	(psig)	14.5	11.6	8.7	+
Max Diffusional Flow	(ml/min)	27.0	18.0	18.0	+
	(10")	12.7	8.5	8.5	+
	(K)	9.0	6.0	6.0	+
	(A)	4.5	6.0	3.0	+

Recommended Rinse Volume

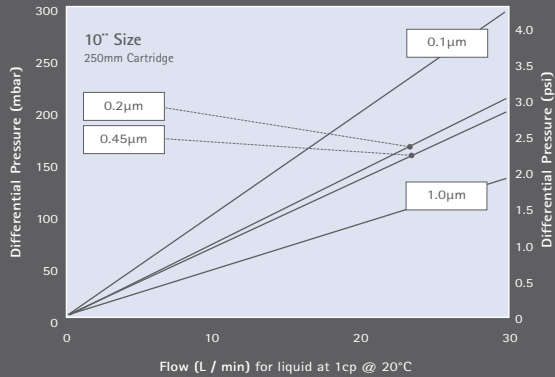
Prior to use - 3 litres per 10" cartridge.

Pharmaceutical Validation

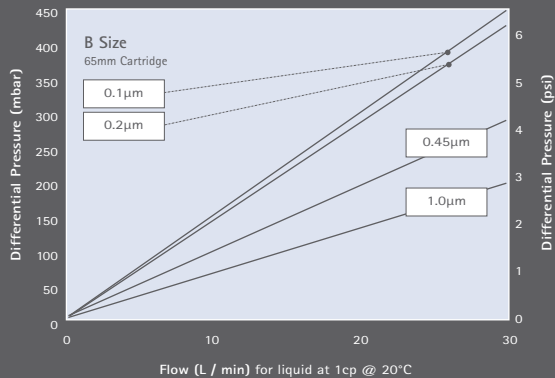
A full validation guide is available upon request with Lab Services Group (LSG) support for specific individual requirements.

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Cartridge Flow Rates

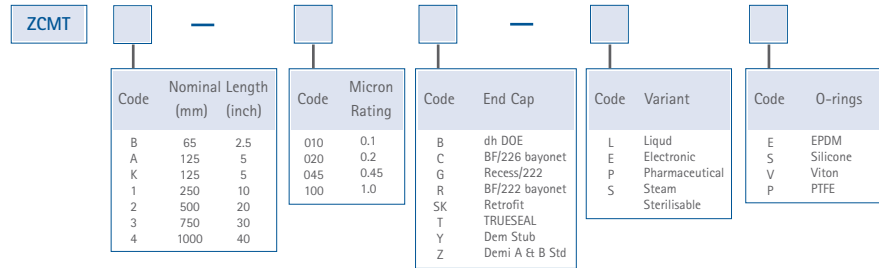


For K size for a given flow rate multiply 10" size differential pressure by 2

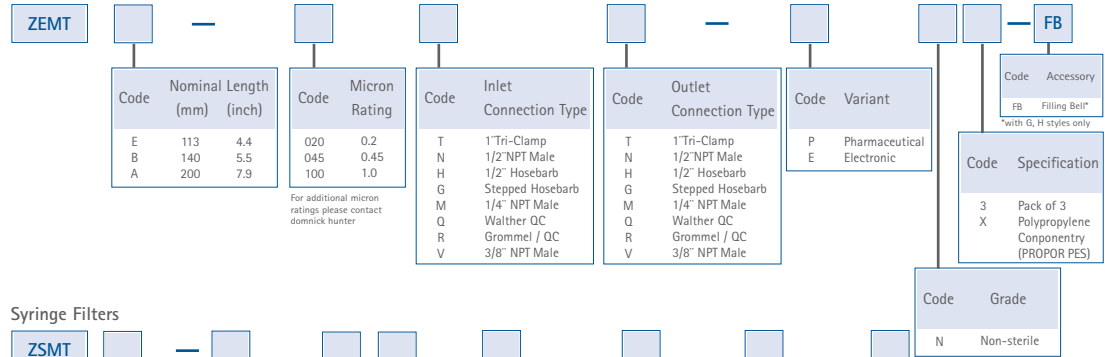


For A size for a given flow rate divide B size differential pressure by 2
For E size for a given flow rate multiply B size differential pressure by 2

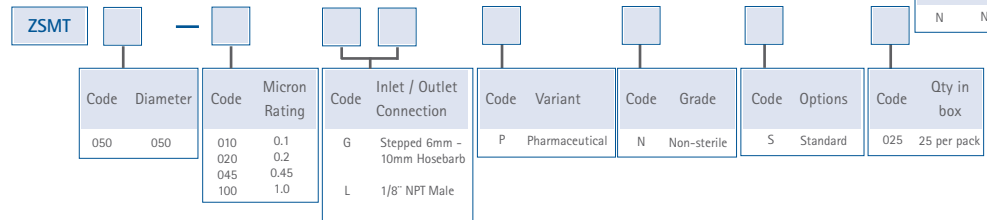
Cartridges



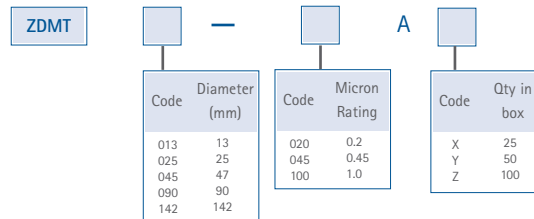
Capsules



Syringe Filters



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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