

TETPOR® 50

Disposable 50mm PTFE filters for critical applications

product information

TETPOR 50 is a disposable filter suitable for air, gas and vent applications and for the filtering of aggressive liquids.



Lightweight and easy to use these filters have stepped hosebarb or NPT threaded connections offering a convenient and time saving method for connection. They eliminate the need for expensive reusable holders and ensure perfect sealing of the membrane every time. Their robust design allows for repeatedly autoclaving where multiple batch use has been validated.

Liquid Applications

TETPOR 50 contains a PTFE membrane encapsulated in a robust polypropylene housing providing validated 0.2µm sterilizing grade filtration.

Gas Applications

For smaller scale application and microbial control in gas purification and vent control, **TETPOR 50** offers a compact and reusable format.

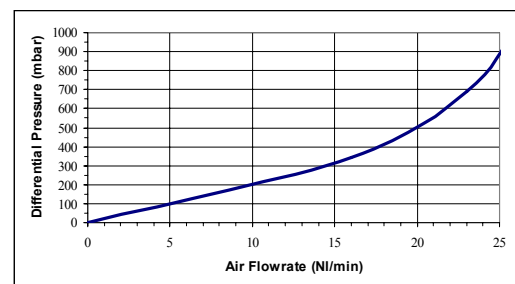
Scaleability

The filter membrane used in the construction is also applied to the larger area formats in **domnick hunter's TETPOR** range of products simplifying the scale-up process.

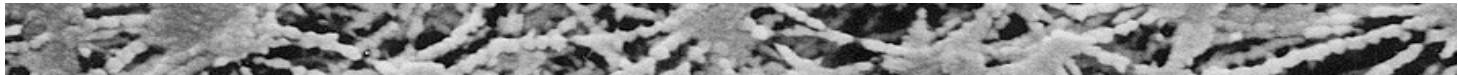
domnick hunter's TETPOR 50 brings the following benefits:

- ❑ **Compact, light and high flowing**
 - ◇ ideal filters for use in vent / feed gas and solvent liquid applications.
- ❑ **PTFE membrane and polypropylene componentry**
 - ◇ compatibility with most solvent systems
- ❑ **Robust thermally bonded construction**
 - ◇ reliable operation.
- ❑ **Inlet and outlet connection options**
 - ◇ select to suit application.
- ❑ **Designed for scaleability with the domnick hunter TETPOR range of filter products**
 - ◇ simplified product selection and validation when higher capacity is required.
- ❑ **Multi-cycle Autoclavable**
 - ◇ economic multi-batch use (when application permits)

TYPICAL FLOW CHARACTERISTICS (Air @ 20°C)



domnick hunter
PROCESS FILTRATION



Materials of Construction

Filter Membrane : Polytetrafluoroethylene (PTFE)
 Support : Polypropylene
 Housing : Polypropylene
 Assembly method : Thermal Welding

Recommended Operating Conditions

Maximum Operational Differential Pressure:
 3.0 barg (45 psig) @ 20°C

Effective Filtration Area (EFA)

14.5 cm² (2.25 in²)

Typical Flowrates

Gas : 23 l/min @ 700 mbar (10 psig) Δp
 Liquid : 400 ml/min @ 700mbar Δp (1cp)

Biological Compatibility

TETPOR 50 products are manufactured from materials suitable for drug and food product contact as identified in appropriate sections of 21CFR177.

Polymeric materials used in construction further conform to the requirements of USP Plastics Class VI – 121°C

Integrity Testing

Membrane used in these products has been validated to a HIMA / ASTM F838-83 methodology for liquid bacterial challenge using *Brevundimonas diminuta*.

A minimum defined bubble point correlating to a sterile filtrate has been specified as:

Bubble Point in IPA (minimum)	1310 (mbar)	19.0 (psi)
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Steam Sterilisation

TETPOR 50's are autoclavable up to 135°C.

Lot Traceability

Each **TETPOR 50** is etched with a lot number for identification and traceability.

Manufactured lots are sample tested for device strength, membrane integrity and air flowrate characteristics.

Pressure Hold:

4.8 barg (70 psig) @ 20°C for 60 seconds

Min. Bubble Point (IPA):

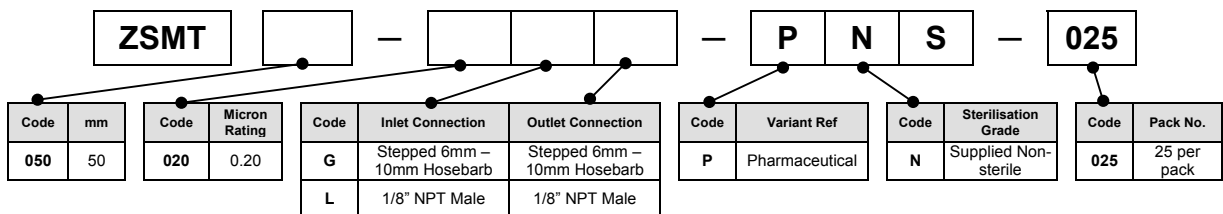
1310 mbar (19 psi)

Min. Clean Air Flow:

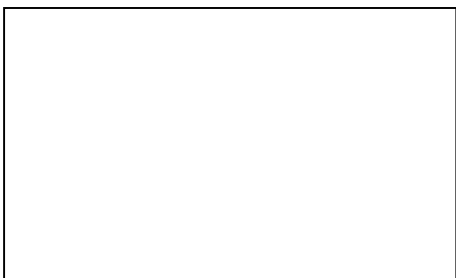
20 l/min @ 700 mbar (10 psig) Δp

SELECTION

domnick hunter Ltd. **TETPOR 50** filters can be readily specified by unique code numbers which can be easily built up for ordering and identification purposes. To specify the filter you require, simply insert your particular requirements in the relevant boxes of the master code shown below.



For other product sizes, micron ratings and connection formats please contact your **domnick hunter** outlet



domnick hunter

PROCESS FILTRATION

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