

## Filter Data Sheet

### *GTM<sub>grade</sub> Teflon® Membrane Media Filter Cartridges engineered and manufactured for cost effective filtration*

**Dist. by: H.R. Peterson Co. - 814 Prior Ave. No. - St. Paul, MN 55104**  
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GTM Grade Teflon Cartridges are designed for general purpose use wherever a cost effective Teflon® membrane filter is required. Typical applications include filtration of aggressive fluids, vent filtration, air and gas filtration.

These cartridges are found in the manufacturing processes of pharmaceutical companies, semi-conductor manufacturers and bulk chemical companies. Priced below special purpose cartridges, GTM cartridges are still manufactured with the same careful attention to quality and performance.

#### Flow Rate

The following table represents typical water flow at a one psi (69 mbar) pressure differential across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

Pore Size	0.04 µm	0.05 µm	0.10 µm	0.22 µm	0.45 µm	1.0 µm	3.0 µm
GPM	0.75	1.0	1.25	2.8	5.7	9.0	11.4

#### Dimensions

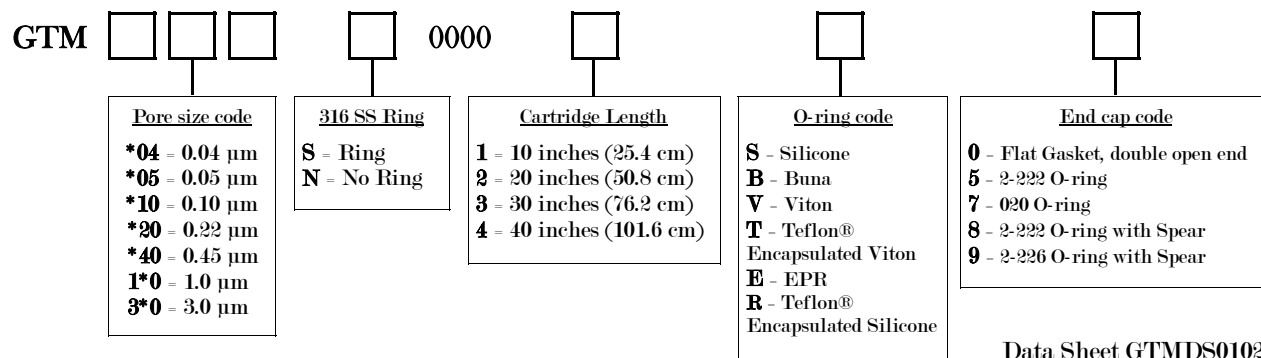
**Length:** ..... 10 to 40 inches (25.4 to 101.6 cm) nominal  
**Outside Diameter:** ..... 2.75 inches (7.0 cm) nominal

#### Maximum Differential Pressures

**Forward:** ..... 50 psi (3.4 bar) at 20°C.  
**Reverse:** ..... 40 psi (2.7 bar) at 20°C.

#### Ordering Information

The cartridge catalog number is made up of several variable characters i.e. pore size, length, O-ring material, and end cap code. For example: a 0.10 µm, 20 inch (50.8 cm) long cartridge with 2-222, Teflon® Encapsulated Viton O-rings, no spear (flat top) and no 316 SS Ring would be designated as: GTM\*10N00002T5.



#### Construction Materials<sup>1</sup>

**Filtration Media:** .....Teflon®  
**Filtration Media Support:** .....Polypropylene  
**End Caps:** .....Polypropylene  
**Center Core:** .....Polypropylene  
**Outer support Cage:** .....Polypropylene  
**O-rings:** Buna, Viton, Silicone, EPR, Teflon® Encapsulated Silicone, Teflon® Encapsulated Viton

<sup>1</sup> All materials of construction are FDA accepted. Final assemblies have been validated to pass USP class 6 Toxicology extractable tests, oxidizable substances for plastics, endotoxin level and other quality tests.

#### Sanitization/Sterilization

**Autoclave:** .....127° C, 30 minutes, multiple cycles  
**In-line Steam:** .....135° C, 30 minutes, multiple cycles  
**Chemical Sanitization :** .....Industry standard concentrations of hydrogen peroxide, paracetic acid, sodium hypochlorite and other selected chemicals. Sanitization protocols designed to extend the useful life of GTM cartridges are available from Critical Process Filtration, Inc.®.

#### Integrity Test Specifications

(IPA wetted membrane)

Pore Size	Bubble Point in IPA
0.04 µm	40 PSI
0.05 µm	30 PSI
0.10 µm	22 PSI
0.22 µm	15 PSI
0.45 µm	9 PSI
1.0 µm	6 PSI
3.0 µm	3 PSI