International Filter Products

Revolutionary systems for your industry

PureFlo® G50C Gas Filter Capsules

PureFlo® G50C Disc Capsules (50mm diameter) have been specially designed for simple, quick, and efficient filtration of gases. Eight different media options can be placed in an all-polypropylene or polyethylene shell construction for excellent chemical, gas compatibility. The small, compact design of the filter capsule allows for superior air flow rate and low backpressure. Ideal for vacuum pump protection from contamination. A hydrophobic 1um or smaller micron size should be used for the application. It can be used as a hydrophobic barrier to protect from viral and bacterial contamination. PTFE 0.2um and PE 0.2um rated filters can be used in sterile vent applications with extremely low resistance. Gamma sterilization resistant options are available.

Materials of Construction

Membrane: Nylon, Nylon Screen Polyethylene, PES, Polypropylene Membrane, Polypropylene Media, Hydrophobic and Hydrophilic PTFE

Membrane Supports: Polypropylene

Capsule Body: PP, PE

Fitting Connections

Luer Lock, Luer Slip, Hose Barb, Compression , NPT, Quick Couplings, and more

Effective Filtration Area - 2.5in^2 (15.9 cm^2)

Operating Conditions

Max. Working Pressure:
PP/HDPE/PVC 80 PSID @ 77°F/25°C (5.5 bar)
Gamma PP 45 PSID @ 77°F/25°C (3.1 bar)

Minimum burst pressure:
PP/HDPE: 120 PSID @ 77° F/25°C (8.3 bar)
Gamma PP: 60 PSID @ 77°F/25°C (4.1 bar)

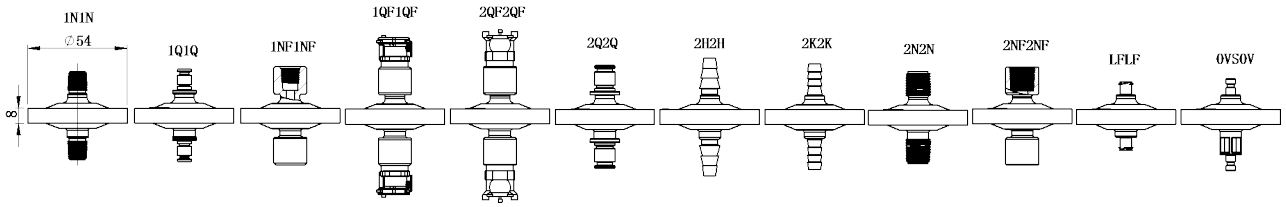
Maximum forward differential pressure:
60 PSID (4.1 bar) at 68°F (20°C)

Maximum reverse differential pressure:
30 PSID (2.1 bar) at 68°F (20°C)

Maximum Operating Temperature:
PP & Gamma PP: 176°F/80°C
HDPE: 140°F/60°C PVC: 122°F/50°C

Regulatory Compliance

The discs are manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations. Medias and Membranes are also in compliance with the USP Class VI Biological Test for Plastics. (Except Blk PP and PVC)



PureFlo G50C Filter Capsules Ordering Guide

PureFlo G50C Capsule Filters	Filter Media	Pore Sizes (Micron)								Input Fitting	Output Fitting	Options
		Polyethylene (E)	PTFE (F)	Glass Fiber (G)	Polypro Membrane (M)	Nylon (N)	Nylon Screen (NS)	Polypro Media (P)	PES (S)			
G50C = 50mm Capsule filter	E = Polyethylene F = PTFE G = Glass Fiber M = PP Membrane N = Nylon NS = Nylon P = PP Media S = PES TS = Polyester Screen	020 = 0.20 100 = 1.0 150 = 1.5 250 = 2.5	010 = 0.10 020 = 0.20 045 = 0.45 100 = 1.0 300 = 3.0 500 = 5.0 999 = 10	005 = 0.5 010 = 1.0 030 = 3.0 050 = 5.0 100 = 10 200 = 20 300 = 30	010 = 0.1 020 = 0.2 Polyester Screen (TS) 200 = 20 400 = 40 600 = 60 730 = 73	005 = 0.05 010 = 0.10 020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20	100 = 10 200 = 20 400 = 40 600 = 60 10X = 100 20X = 200	003 = 0.3 006 = 0.6 010 = 1.0 030 = 3.0 050 = 5.0 100 = 10 200 = 20 300 = 30 400 = 40 500 = 50 700 = 70 15X = 150	005 = 0.05 010 = 0.10 020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20	OVS = Male Medical Coupling 1N = 1/8" MNPT 1NF = 1/4" FNPT 1Q = 1/8" Male Quick Coupling 1QF = 1/8" Female Quick Coupling 2H = 1/4"-3/8" Hose Barb 2K = 1/4" Hose Barb 2N = 1/4" MNPT 2NF = 1/4" FNPT 2QF = 1/4" Female Quick Coupling 2Q = 1/4" Male Quick Coupling for Metal latch	OVS = Male Medical Coupling 1N = 1/8" MNPT 1NF = 1/4" FNPT 1Q = 1/8" Male Quick Coupling 1QF = 1/8" Female Quick Coupling 2H = 1/4"-3/8" Hose Barb 2K = 1/4" Hose Barb 2N = 1/4" MNPT 2NF = 1/4" FNPT 2QF = 1/4" Female Quick Coupling 2Q = 1/4" Male Quick Coupling for Metal latch	Blank = Polypropylene Shell -E = Polyethylene shell and HDPE media support for gamma sterilization -GP = Gamma stable Polypropylene Shell -1 = Single Bagged -ETO = Ethylene oxide sterilization -BLK = Black PP Shell O-Ring for Quick Coupling -OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton Blank = O-ring Silicon (Standard)

Example – 1.0 Micron PTFE Filter Media with 1/4" hose barb fittings would be G50CF1002H2H

OVS is compatible with -Parker/RECTUS 91 and 20, Walther 06-003, and Value Plastics -Bayonet Style Quick Connect

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