



Varafine™ VCSH Series Filter Capsules

Disposable Hydrophobic Membrane Capsule

- Highly asymmetric polysulfone membrane
- Gas retention rating at 0.003 μm absolute provided by positive mechanical retention
- Effective alternative to expensive fluoropolymer media for inert gas filtration applications
- Pre-flushed with ultrapure 18 megohm-cm water to ensure product cleanliness
- Four inlet and outlet connection options allow rapid retrofit into existing systems

Product Specifications

Materials of Construction:

Filter Media:	Hydrophobic Highly Asymmetric Polysulfone Membrane
Hardware:	Polypropylene
Support Material:	Polypropylene
Housing:	Polypropylene
Vent Ports:	Polypropylene
Sealing:	Thermal Bond

Dimensions:

Overall Height:	10.9 cm (4.3 in)
Diameter:	9.4 cm (3.7 in)

Performance Specifications

Maximum Operating Pressure:

Gas rating:	4.1 bar @ 20°C (60 psig @ 68°F)
Liquid rating:	6.9 bar @ 20°C (100 psig @ 68°F)

Maximum Operating Temperature:

95°C (203°F)

Maximum Differential Pressure:

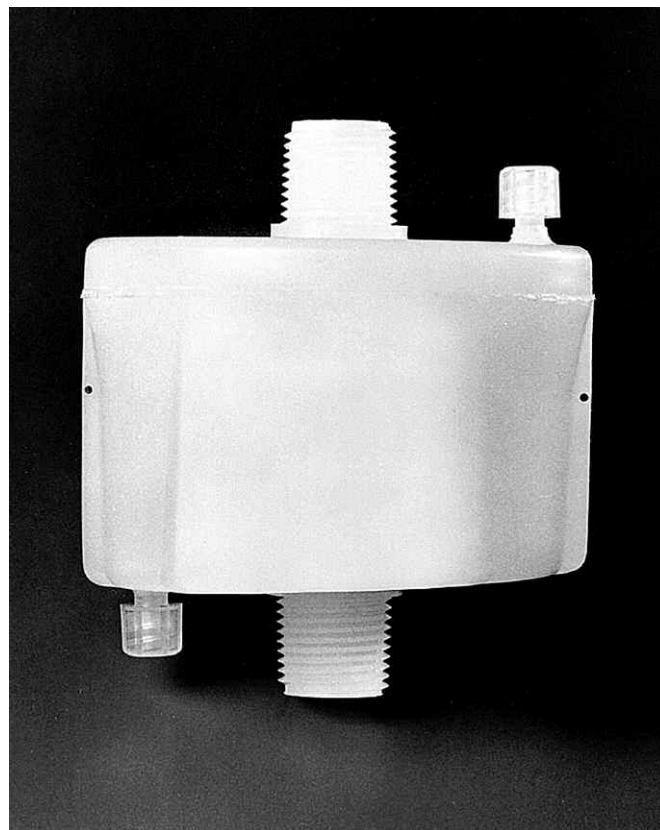
3.5 bard @ 20°C (50 psid @ 68°F)
1.7 bard @ 80°C (25 psid @ 176°F)

Connection Sizes:

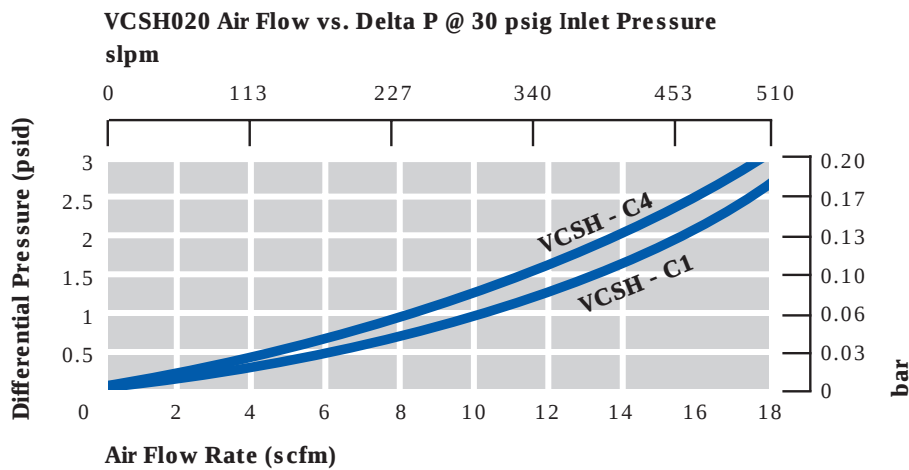
0.63 cm (¼ in) - Hose Barb
1.27 cm (½ in) - NPT

Sanitizing Agents:

Capsule may be sanitized in place with common sanitizing agents. Consult the factory for compatibility information.



Capsule Air Flow Data



Dimensional Information

Configuration		Diameter	Length
Inlet	Outlet	cm (in)	cm (in)
½" NPT	½" NPT	9.40 (3.70)	10.80 (4.25)
¼" NPT	¼" NPT	9.40 (3.70)	10.95 (4.31)
¼" HB	¼" HB	9.40 (3.70)	11.38 (4.48)
¼" NPT	¼" HB	9.40 (3.70)	11.18 (4.40)

Part Numbers/Ordering Information

VCSH ☆ – ▼ (e.g., VCSH020-C1)

Code ☆	Filter Grades	Code ▼	Connection Type Inlet	Outlet
020	0.02 µm	C1	½" NPT ¹	½" NPT
003	0.003 µm	C4	¼" NPT	¼" NPT
		C5	¼" HB ²	¼" HB
		C6	¼" NPT	¼" HB

¹ NPT = National Pipe Thread

² HB = Hose Barb



Pall Corporation

25 Harbor Park Drive
Port Washington, NY 11050
+1 516 484 3600 telephone
+1 800 289 7255 toll free US

Visit us on the Web at www.pall.com

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