

BorsoCap-SIP Sterile Gas SIP Capable PTFE Filter Capsule

VAN BORSELEN FILTERS



BorsoCap-SIP Capsule Filter is designed for use in sterile air and gas filtration in biopharmaceutical and other applications. They are recommended for sterilizing filtration of pharmaceutical fluids including solutions with active ingredients, biologicals, biotech proteins, ophthalmics and other dilute preservative solutions.

BorsoCap-SIP Capsules are the first and only single-use filter capsules that can be sterilized by in-line steaming (SIP). These robust filter capsules are an ideal low-maintenance alternative to a stainless steel housing and cartridge assembly, often still considered the only option when a filter must be integrated into an SIP system. Engineered polyetherimide material allows multiple SIP (steam-in-place) cycles at high pressures and temperatures.



Features and Benefits

- In situ Integrity testable by water intrusion test and bubble point test.
- Steam sterilizable with long service life and low operating Costs.
- Clear housing for easy venting
- Engraved-etched serial number for easy identification
- Non-removable hose barb drain for safe and hygienic operation
- New design sanitary valves
- Non-removable for safety
- Non-threaded for cleanliness
- Low installation cost - up to 80% less than a comparable stainless steel system.

Applications

- Tank venting
- In-situ
- Sterile air flow



High Quality Standards

- Meets USP Biological Reactivity Tests in vivo, in accordance with USP Class VI plastics at 121 °C
- 100 % integrity tested during manufacturing
- Each filter supplied with a Certificate of Test
- Manufactured under a Quality Management System certified to ISO 9000
- Comply with the relevant requirements of EU 1935/2004 and EU directive 10/2011

Materials of construction

Filter media	: Hydrophobic PTFE Membrane
Removal Rating	: 0.2µm
Support	: Polypropylene
Cage/Core/End Caps	: Polypropylene
Capsule Housing	: Polyetherimide
Support Ring	: Stainless Steel
O-Rings	: Silicone
Body Diameter	: 81.0 mm
Overall Length	: 159.0 mm



Operating Characteristics

Maximum Operating Pressure 5.6 bar (25°C)

5.6 bar (25°C)

1.0 bar (80°C)

Maximum Differential pressure Forward:

6.0 bar (25°C)

1.0 bar (80°C)

Steam in Place:

142°C/30min up to 12 cycles

Autoclave:

131°C/30min up to 54 cycles

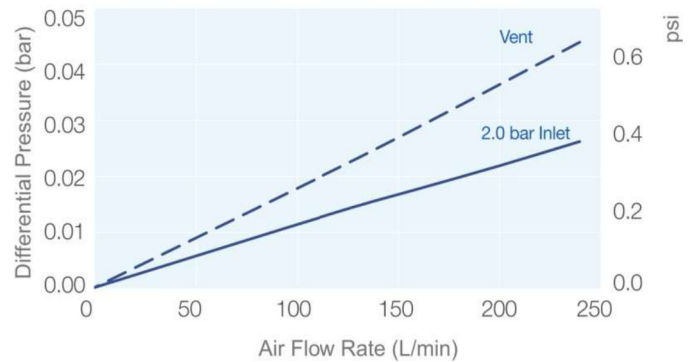
Effective Filtration Area:

0.207 m²

Integrity Test Data

Bubble Point IPA/ Water 60/40%		Water Intrusion Test Pressure		Water Flow
(mbar)	(psi)	(bar)	(psi)	(µl / t)
1080	15.6	2.5	36.2	1800
1080	14.5	2.5	36.2	810

Air Flow Rate Characteristics



Ordering Information

BorsoCap-SIP PTFE membrane	Length	Micron Rating	Vent/Drain
BCSIP	015 (= 1.5") 050 (= 5")	002 (= 0.2 µm)	H (= Hose Barb) T (Staubli)

Example code:

BCSIP	015	002	H
-------	-----	-----	---

BorsoCap-SIP, 1.5 inch, 0.2 micron, Hose Barb.